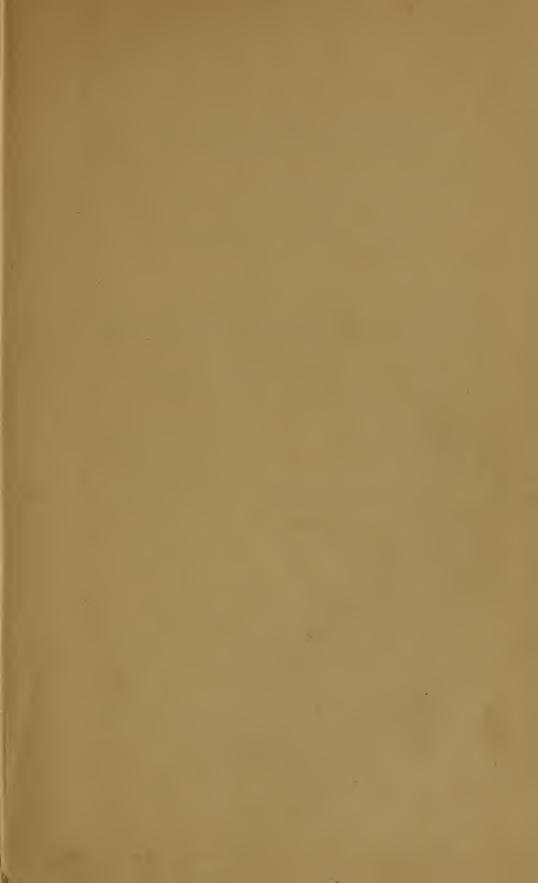
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MANUAL OF REFERENCE

TO THE

# ALPHABETS OF ANCIENT AND MODERN LANGUAGES .

BASED ON THE GERMAN COMPILATION

39 61

F. BALLHORN.



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1861.

### PREFACE.

THE GRAMMATOGRAPHY is offered to the Public as a compendious introduction to the reading of the most important ancient and modern languages. Simple in its design, it will be consulted with advantage by the Philological Student, the Amateur Linguist, the Bookseller, the Corrector of the Press, and the diligent Compositor.

Although substantially based on "Ballhorn's Alphabete," a German compilation, which, in the space of a few years, passed through nine editions, the present manual has in several articles been very considerably improved and enlarged. Of the new observations which have been inserted, some may prove useful even when this work shall be consulted by the side of the respective Grammars. With regard to the Asiatic Alphabets, it may be stated, that the continued efforts to obtain trustworthy specimens have, in some instances, led to highly satisfactory results. In preparing the type of the Chinese characters, the lateral "Tones" have been adjoined to the 214 symbols of pronunciation. These additions will enable the student, instructed by native teachers, to remember with greater facility the varying articulation of vowel-sounds.

The publishers entertain the hope, that the present work, an humble attempt to assist in the furtherance of philological pursuits, will obtain the encouraging consideration of competent scholars, whose suggestions, available for future editions, are respectfully solicited.

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### PERSIAN CUNEIFORM CHARACTERS.

There are two main families of Cuneiform Characters which, before the expedition of Alexander the Great, were in use nearly in all Asiatic Countries, subjected to the (Achæmenides) Persian Kings. One of these, the Arian arrow-headed, is here given, and is a pure alphabet of fixed characters, which was made use of by the old Persians, proper, and is now read with tolerable accuracy. The other, however, not yet deciphered with sufficient certainty, was employed, with some modifications, by at least five different nations, the Babylonians, the Assyrians, the Medo-Scythians (the second in the triglot inscriptions of Perscpolis and Bisutun), the Susians and the Armenians. Almost in each of these five sorts of characters can be distinguished three styles, the Archaic, the Lapidary, and the Cursive.

Form	Value	Form	Value	Form	Value	Form	Value
TYY	a	=111	t	1<=	lll before i	₹	s (sh)
ŤŤ	i	111=	t <sup>e</sup> before i	<b>E</b> (-	m²before u	YY	Z
<b>(17)</b>	u	111-	t' before u	<b>&gt;</b> <	n	-1<	z', g'
<b>\</b> \\	k	1<1	th	14	y	<b>⟨</b> ⊭ <b>⟨</b>	h
<b>&lt;1</b>	q	₹	d	E	r	¥Y	thr (tr)
<b>~11</b>	kh	(E)	dh		r'	1<	rp, q
<yy-< th=""><th>g</th><th>XXXX</th><th>p</th><th>₹√</th><th>f</th><th><b>**!</b></th><th>d, h</th></yy-<>	g	XXXX	p	₹√	f	<b>**!</b>	d, h
<b>(</b>	gh	<b>1</b> **	. f	-12	v	***	b, u, m, i
₹ <b>∀</b> ≻	k'	<b>\&gt;</b> \	b	12	ç (s)	1	point for separating words.
-	g	-111	m				
			1			1	

# MEDIAN CUNEIFORM CHARACTERS

Form	Value	Form	Value	Form	Value	Form	Value
<b>&gt;&gt;</b> \	a	≽Y	t	=1=1	phi	<b>E</b> <1>	vo .
-=1=	â	<b>E-11</b>	ta	<b>₹</b>	y	<b>Y</b> E	S
	i	<b>-</b> ₹	ti	-11<	yu	*	sa
	î	-	tu	<b>EYYY</b>	yo.	EV	su
	u .	EYE	th	->1/-	r	<b>≥</b> ¶	s'
ÿÿ≿	û	VE.	thi	-	ra	٧	s'a
	q	-31	thu	-111<	ri	-</th <th>s'i</th>	s'i
A) E	qu	<b>&gt;&gt;</b>	p	≽γγ̈́γ	ru	1>	Z
> <u>&gt;</u>	k	EY	ра	<b>*Y</b> >	ro ,	Ϋ́Υ	za
<b>&gt;</b> Y	ka	<b>=Y=</b>	pi	>=\	lu	<b>₩</b>	h
<b>777</b> ≥	ku	<b>=11-</b>	pe	<b>⟨</b> }≥	fi	<b>**</b>	ha
-13	kh	<b>Y</b> ≽	pu	<b>*</b>	fe	> <b>&gt;</b> \	n
<11/2	kha	≽Ÿ	ph	YEV	v	<b>(</b>	ni
<b>&gt;</b> <	khu	<b>-</b> Y	pha	₽₽¥¥	vu	=11=	m
					-		

ASSYRIAN	CUNETRORM	CHARACTERS

Form	Value	Form	Value	Form	Value	Form	Value
**	)	**<	)	<b>/</b> <	)	<b>₹</b> ¥	
<b>¾</b> <b>≿</b> \\$	a	4	ch	TY	n	4	r
	)	<b>\\ \</b>	t	#	) - p	ΞΥΥ ΣΥΥ	
1 Th	a, ya	禁		<b>:Y</b>	P	<b>EV</b> -	
W 14	) b	<b>→ /</b>		¥¥		EY	ř rsh
	)	<del>111</del> 1	t, s	31		<y-++<y< th=""><th></th></y-++<y<>	
<b>₹</b>	g, kh			EY	ds, z, dsh or j	***	s
EIKI				EY		****	)
> <u>\</u>	d	*	i	>Y		>/-	
EYYY	)	Y> -		\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	k	<b>&gt;/&gt;</b>	
<b>₹</b>	h	₹ 5VV	i, y i, ü	<b>&gt;</b> 1	K	<b>√</b> >	и,
****	hu, v, y	<b>≥11 ≥14</b>	y y	÷ • • • • • • • • • • • • • • • • • • •		<b>₹</b> {\	sh
+<1	) > u	<u> </u>	,			THO THE	
377			kh	=YYY		*****	
AY.	0			***		<b>&gt;</b>	
<b>**</b>	v, h, a, r	EY	m, v	***	r	<b>≥</b> ii\$	a, z
¥ <b>&lt;</b> ¥ <b>&lt;</b>				11-1		-{}	nue
¥ <b>\</b> ¥ <b>\</b> ¥ <del>\</del> ¥ <del>\</del>	ch	<b>-&gt;</b>	> n	VY+		- <del>{}</del>	vush
¥¥<		<b>&gt;</b>	,	1	}	<b>**!</b>	) Harri

# OLDEST CHARACTERS

Arrangement	Hieroglyphics	Hieratic	Demotic	Phonician	Numidian	Early - Hebrew
* Alĕph	<u> </u>	*		4 +		+
<b>⊃</b> Bēth	•	П	4	9 9	)	9 9
3 Gīmel	ř			71		71
7 Dāleth		<u> </u>		49	1	94
₩ē	G		2	3	þ	ੜ
1 Vāv	1	h		77		1
i Zăyin	}	Ż		Z		
	. 2	_				
-	N.	a	^			
7 Chēth	<b>∩</b>	A		月月	))))	B
🗠 Tēth	<b>%</b>		3	8	U	
• Yōdh	<b>-</b>	H	2	MM		マ へ
<b>∆</b> Kăph	_	4	4	774	2 4	Ä
5 Lāmědh	^	A	,	L. L 4	3	L
<b>☆</b> Mēm		Щ	4	7 4 4	34	7
3 Nūn	1	A		4 4	1	y
□ Sāmĕk	L	ь	Y	my 27	4	
<b>y</b> Ayĭn	8	K	<u>&gt;</u>	U O	()	υ <b>◇</b>
<b>5</b> Pē	9	,	>	7	)	٦
z Tsādhē	)XXX(			pp		111
Q'ōph ر	•	Ц	Ü	22	V	TP P
7 Rēsh		R	4	9 4	7	94
<b>ບ</b> Shīn		ш	in	444		ww
n Tāv	¥			h #	×+	×+
7	1	S	5	!		

OI	DEST	CHA	RA	CTTR	C
VI.		$\mathbf{U}$	DA		

	Aramaic	Estrangelo	Palmyrenian	Kufic	Old - Hellenic	Old - Italic	Etrurian
	XX	2	XXY	[ 0	4	AMA	ЯА)
	9	コ	2	<b>4</b> ~	8 8	<b>₹</b> 8 .	A □ (a
	^	7	人	6	1771	(7)	9 A )
	4	7	4	د ڪ	AVA	494	<b>4</b> B b
	7	TI	K	<b>d d</b>	月月	3 ) E	CAK SICC
	ון ו	a	7 7	9	FF	コヨト	4 L )
	1	(	I	+3	I	27	$\left\{ \begin{array}{c} \mathbf{r} \\ \mathbf{r} \\ \mathbf{r} \end{array} \right\} \mathbf{t}, \mathbf{d}$
	•.••			_	H	٦.	<b>∌∃</b> e
				2	EI		8 f
	н	77	H	6	日日	□ H.	目h
	D	+	G	4	0	⊙ . ⊖	· li
	x ^	-	> >	١	S S	11	1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	4	76	â 3	<u>\</u>	X K	X K	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1	46	7	y	1 0	1 14	1 4	m m
	4 4	尹	C	0 1	w w	М	M W ) <sup>m</sup>
	71	C_T	2	- د	~	7 ~	ии д Г 🕽 п
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	U	7	9	8 6	0	() ⊙	00
	1	A	3 1	4	7	7 [	O O \
	7	77	5	حر	7	+	7 1 1 p, b
	PT	口	H	و	Q ф	904	4 7 ( "
	4 4	7	444	3	9 4	4 P	9 d D \ r
	<b>V</b>	L	V	بدر	w w	M	2 ≥ s
	p h	97	5	1 ((	<b>4</b> Т	++	Y u
	• • • • •			ا د	VY	V	V v, u

### HEBREW

Form	Name	Pronun- ciation	Numer value
8	Aleph	Spiritus lenis	1
	Beth	b bh	2
<u>ت</u>	Gimel	g gh	3
7	Daleth	d dh	4
n	He	h	5
7	Vav	W	6
7	Zayin	S soft	7
T	Cheth	ch	8
20	Teth	t	9
•	Yodh	j	10
D, final	Kaph	k kh	20
5, final	Lamedh	1	30
ħ, final □	Mem	m	40
i, final	Nun	n	50
ם '	Samek	s	60
ジ	Ayin	guttural	70
D, final	Pe	p ph	80
3, final ?	Tsadhe	ss	90
	Qʻoph	q	100
7	Resh	r	200
2	Sin	s	
<b>2</b>	Shin	sh	300
ת	Tav	t th	400

Final-Kaph
with Shva | with Q'amets | with Daghesh and Q'amets |

#### LIGATURES.

יר or <u>ב"</u> = הוָהן

ב אל הים also instead of אַל בורים אַל בורים

#### NOTES.

The Hebrew Alphabet, like all Semitic alphabets, consists only of consonants, 22 in number, some of which, however, have also the force of vowels. Hebrew is read from right to left. Because at the end of the lines, words cannot be divided, the following dilatable characters (dilatabiles) were employed to help to justify, or fill up the lines; but now the practice is all but obsolete.

#### CONSONANTS.

Notes on Pronunciation.

- N is the softest guttural, an emission of the breath scarcely to be heard, the Spiritus lenis of the Greeks, similar to π, but much softer.
- The fore a vowel, is our aspirated h (the Spiritus asper of the Greeks); but after a vowel, at the end of a syllable, it is a guttural, and, at the end of words, it often supplies the place of a vowel.
- 1) is a guttural g, accompanied by a grating or rattling sound; 2) a softer breathing like s. In reading and transcribing hebrew words, it is now usual to omit 2 and s, e. g. 25 Eli.
- is the harshest guttural, like the German ch as pronounced by the Swiss, or the Spanish x and j.
- is pronounced in Hebrew more like a rattling guttural, than as a pure lingual, and partakes of both sounds.
- and were originally but one and the same letter, as they still are when written without points; but as in some words this letter had a softer sound, similar to s, this two-fold pronunciation is distinguished by the grammarians by the diacritical point: wo (sh) and wo (s).
- is the English z.
- 2, p and 2 are strongly articulated sounds, produced by a compression of the lower organs of the mouth; the two first, therefore, differ essentially from p and p which are equivalent to our t and k, and are often aspirated.

The six consonants persia have a twofold pronunciation: 1) a harder and more slender sound (tenuis), like our b g d k p t, and 2) a smoother sound accompanied by a soft aspiration. The harder sound is the primeval; it occurs at the beginning of words and syllables without a vowel preceding immediately, and is indicated by a point (Daghesh lene) in those six consonants. They are aspirated after a vowel immediately preceding; in manuscripts this is indicated by the Raphe (\*), but in printed books the aspiration is shown by the absence of the Daghesh.

CLASSIFICATION OF THE CONSONANTS.

- a) According to the organs of speech by which they are pronounced:
  - 1) gntturals (gutturales) ニッニ ×

  - 2) palatals (palatinae) בנקן 3) linguals (linguales) מין and ז'ין
  - 4) dentals (dentales) 2 2 2 7
  - 5) labials (labiales) ב ב ב

The = partakes of the 1. and 3. classes.

- b) According to their sound:
  - 1) aspirated consonants (aspirantes): = = = 8 2) soft consonants (molles): liquids - : = 5,
  - semivowels 17 3) sibilants (sibilantes): 2 2 5 7
  - שק and בגדכבת (mutae): בגדכב and ב

#### VOWELS.

That the scale of the five vowels ā ě ĭ o oo is derived from the three primitive vowels a i oo, is to be seen much more distinctly in the Hebrew and the other Semitic languages than in other languages. The e has been formed by à + ĭ, the o by à + oo, and, properly speaking, both are contracted diphthongs : è = ai,  $\delta = au$ . — The full vowels formed by this process are the following, arranged according to the three principal vowels and to their prosodical quantity:

Vowel a (N)

🔫 Q'amets, à ā

- Patach, à.

Vowelĕ-ĭ()

🔭 Tsere (with Yodh), è

. Chireq (magnum), ī

... Tsere (without Yodh), ē (è)

Seghol, ě, è (the latter is also written 9----)

— Chireq (parvum), ĭ (i).

Vowel 0 - 00 ()

Cholem (magnum), ò

Shureq, ū

Cholem (parvum), ō (o)

Q'amets-chatuph, o

Q'ibbuts, ŏŏ (ōō).

The vowels, or vowel-points, are placed under the consonants after which they are pronounced (7 ra); but the Patach, placed under a guttural at the end of a word, is pronounced before this guttural, are ruach, in which case it is named Patach furticum. The Cholem (without Vav) is placed above the consonant on the left side: Fro. The figure is to be pronounced sometimes ov, the being consonant, and the - preceding it; sometimes vo, the Cholem being read after the Vav. It is more accurate to distinguish thus: 1 ov, 1 vo, † ô; likewise also \* (Shureq) and \* (Vav with Daghesh). As, however, a (Shureq) is readily discernible, because a vowel neither can precede nor follow it, only this form is made use of.

In opposition to the vowels

- Shva (Sheva) indicates the absence of a full and distinct vowel. Therefore
  - 1) placed under a consonant concluding a syllable, it indicates the complete absence of a vowel and serves to divide the preceding syllable from the following (Sheva quiescens). It is not made use of, however, when the consonant concluding the syllable at the same time concludes the word, except in the case of the Final Qoph  $(\overline{a})$ , and those words ending in two consonants, when each of them is to be furnished with a Sheva, c. g. 772
  - 2) itrepresents a slight and indistinct vowel, as it were only the onset or beginning of a vowel (Sheva mobile).

The Sh<sup>e</sup>va mobile is pronounced somewhat more clear and distinct in the so called Chateph-vowels (pun rapidum), joining a short vowel to the Sheva simplex; in opposition to which it is also named Sheva compositum. There are three Chatephs:

-: Chateph Patach, half á

🚃 Chateph - Seghol , half ĕ

T: Chateph - Qamets, half o.

#### READING-SIGNS.

There are some reading-signs which have close connexion with the vowels and probably were introduced at the same time. Amongst these is to be noticed the diacritical point of v and v. Meeting together with the Cholem (-), only one point is made use of which represents both: therefore vis to be pronounced so, if no other vowel-point is added; and osh. when the preceding consonant is unpointed, e. g. Nin sone, min mosheh.

More frequently we see a point placed in the consonant to indicate in general a harder pronunciation. There are three cases to be distinguished, viz.:

Daghesh forte, doubling the consonants.

Daghesh lene, hardening the consonant; it stands only in the six mutae: מברבב in the above named cases; otherwise the point occurring in these consonants must be a Daghesh forte.

Mappiq, indicates that those consonants, which are also used as vowels, are then to be pronounced as consonants; in modern printing it is made use of only in the mat the end of the words.

In opposition to the point hardening the consonant, a little stroke standing above the consonant indicates his softer sound. This stroke called

Raphe (\*) is now almost out of use, and is only employed in order to indicate expressly the absence of a Daghesh or Mappiq.

#### ACCENTS.

The general design of the accents is to indicate the rhythmical members of the verses in the Old Testament. In doing this, they perform a twofold duty; for the accents mark at one and the same time partly the logical relation of each word to the whole sentence, and partly the accented syllable of each single word. In the first case the accents supply the punctuation, in the latter they are signs of tone. — As signs of tone, the different accents are equivalent, because there is in Hebrew only one kind of accentuation. In most words, the last syllable is accented, more rarely the last but one. — As signs of punctuation, their use is more complicated, because they not only separate words, like our points, commas and colous, but also join one to the other. Therefore they are divided in Distinctivi and Conjunctivi. In the following list they are arranged not according to their grammatical value, but according to their being placed below the consonants or above them, in order to give a more facile view of them.

ACCENTS PLACED UNDER CONSONANTS.

Silluq only at the end of the verse, therefore always joined with: Soph-pasuq, which stands between the single verses.

- Athnach, mostly in the midst of a verse
- Yethibh (always to the left of the vowel).
- .. Tebhir
- Tiphcha initiale
- , Merkha
- Double-Merkha
- Munach
- Mahpakh (to the right of the vowel)
- Darga
  - , Yärach
- Tiphcha finale.

ACCENTS PLACED ABOVE CONSONANTS.

- : Segholta
- : Zaqeph-qaton
- " Zaqeph-gadhol
- Rebhia
- ~ Zarqa
  - Qadma
- Pashta
- : Shalshelet
- P Paser
- ۹۶ Qarne-phara
- <sup>p</sup> Great-Telisha
- 9 Little Telisha
- ' Gäresh
- " Double-Gäresh.

ACCENTS CONSISTING OF TWO PARTS BELONG-ING TOGETHER, THE ONE ABOVE, AND THE OTHER BELOW CONSONANTS.

- Merkha mahpakhatum
- Merkha sarqatum
- Mahpakh sarqatum.
- : Soph-pasuq, separating verses.
- ! Pesiq, between the words.
- Maqqeph, hyphen, aloft, between the words.
- Metheg, sign of tone (to the left of the vowel).

#### NUMERALS.

There are no numerical ciphers in Hebrew; but consonants are used instead of them. The units are expressed by n-2, the tens by n-2, n-2, n-2, n-2, n-2. The numbers n-200 sometimes are expressed by the five final letters

ק 500 ב 600 ק 700 ב 800 א 900, sometimes by ב 400 with addition of the other hundreds, e.g. ב 500. In compound numbers, the greater is placed first, e.g. איז 121. The number 15 is written with ב 19 + 6), instead of ב 15, because the name of God ב 15 begins with these letters; and for the same reason, 16 is written ב instead of ד. The thousands are expressed by the units, superscribing two points, e.g. 8 1000.

#### ABBREVIATIONS.

- ' A stroke aloft to the left of the consonant, e. g. 'א, denotes that this consonant serves as a numeral. By the side of the last consonant of a word, e. g. 'כם (בותה) it marks an abbreviation.
- "Two strokes above a word, e. g. "s, indicate that each of these letters stands for a separate word abbreviated."
- o or \* in copies of the Hebrew Bible refer to the readings placed in the margin or at the foot of the page. The first is of Masoretic, and the other is of modern origin.

# RABBINIC

# GERMAN-RABBINIC

Form	Name	Pronunciation	Form	Pronunciation
ŕ	Aleph	Spiritus lenis	n	a
			ב	b
3	Beth	bh b	۵	v f
١	Gimel	gh g	٦	g
7	Daleth	dh d	7	d
7	Не	h	n n	h
V		11	1	v u o
1	Vav	W	П	w
ŗ	Zayin	s	:	s
ח	Cheth	Ch guttural	n	cch
		0	υ	t
υ	Teth	t	,	i j e short
•	Yodh	У	D, final 7	c
o, final 7	Kaph	ch k	Ō	ch
5	Lamedh	1	3	1
		1	N, final p	m
m, final C	Mem	m	), final	n
), final ]	Nun	n	a	S SS
۵	Samek	s	ע	e long
			D, final 7	p
ע	Ayin	guttural	Ď	ph pf v
D, final 9	Pe	ph p	3, final /	z tz
5, final 7	Tsadhe	Z	ק	k ck q
			٦	r
7	Q'oph	k	ט	s sh
7	Resh	r	л	t
D.	Shin Sin	sh s	ī.	-
ה	Tav	th t	DIPHTH אור au, יי ei, יין	

# HEBREW RUNNING-HAND

Form		Name	Pronun-	Numerical	Ligatures
Polish	German [		ciation	value	2376.000100
<b>%</b> ~	K	Aleph	<b>%</b> a	1	
جٌ	9	Beth	<b>⊃</b> / b	2	<b>※ = ジュ</b> be
7	,	Gimel	<b>3</b> g	3	אל בה ⇒ 8
′ 3	3	Daleth	∃ d	4	
ล	ก	He	in h	อ	ng <b>لا</b> = الع
1	,	Vav	ا w	6	<b>9</b> = 71 nd
;	2	Zayin	i s	7	<b>ツ = コユ nh</b> -
<b>n</b>	<b>r</b>	Cheth	□ ch	8	ת בה של nh בי יום יום יום יום יום יום יום יום יום יו
6	6	Teth	t t	9	. <b>@</b> = <b>5</b> 1 nf
,	,	Yodh	<b>,</b> y	10	_v = 22 nn
ے	ے ا	Kaph	⊃ cch	20	
1	\(\frac{1}{2} \)	Lamedh	ا 5	30	, = 13 nw
Х	X	Mem	₽ m	40	୬ <b>= '3</b> nj
	_1	Nun	l l	50	<b>3</b> / 7 <b>2</b> zd
0	0	Samek	D ss	60	<b>9</b> . — 1 <b>3</b> z.u
or 8	or 8	Ayin	уе	70	$\beta = \mathbb{Z}$ sw
<b>a</b>	O	Pe	e p	80	is 21 = 6
ê	5 3	Fe	≦ f	90	92
3	3	Tsadhe	3 C or Z	100	V 1 with mark of ab- breviation, in use at the
2	2	Q'oph	ף k	200	end of certain words.
2	7	Resh	n r	300	
Q	Q	Shin	w sh	400	
- v	2	Tav	ה th	500	

### FINAL LETTERS.

Polish.					Germa	n.	
7	==	٦	cch	7	_	7	ech
२	=		m	२	_		m
(	_	i	n	(		i	n
ß		P	f	888		7	f
P	=	P	c z	h b		7.	c z

### **SAMARITAN**

Form	Name .	Pronun- ciation	Numerical value
N	Aleph	Spiritus lenis	1
9	Beth	b bh	2
Υ	Gimel	g gh	3
7	Daleth	d dh	4
¥	He	h Spir. asper	ō
*	Vav	w v	6
43	Zayin	s ds	7
Ħ	Cheth	ch hh	. 8
V	Teth	t	9
M	Yodh	y	10
共	Kaph	k ch	20
2	Lamedh	1	30
쌛	Mem	m	40
克	Nun	n	50
Ħ	Samek	s	60
$\nabla$	Ayin	y hebrew	70
3	Pe	p ph	80
m	Tsadhe	ts	90
8	Q'oph	k	100
9	Resh	` r	200
m	Shin	sh	300
A	Tav	t th	400

#### NOTES.

The Samaritan is a Semitic language. Therefore, the alphabet consists only of consonants (22 in number) and is read from right to left. As in this language words cannot be separated at the end of the lines, the two letters ending the last word are separated from the others and placed at the end of the line; but in printing this is generally avoided by diminishing or enlarging the spaces between the single words.

Save some points and scanty orthographical signs, there are in Samaritan no vowel-marks, accents or other diacritical signs as in Hebrew, Therefore we are somewhat in the dark about the pronunciation of the consonants and vowels and it can be acquired only by comparison with the Syriac and the Hebrew,

#### VOWELS.

There are no vowel-marks as in other Semitic languages. However, to supply this want and to indicate somewhat the pronunciation, some consonants are used as vowels, viz.:

Of two consonants beginning a word, the first is pronounced as if it were a slight and indistinct yowel, similar to the Hebrew Shwa,

#### DIACRITICAL SIGNS.

The only discritical sign is a stroke over the consonant (e.g., \( \widetilde{\chi} \)) serving to distinguish two different words written in the same manner, or two different forms derived from one and the same root, or to indicate some letter added or omitted. When placed over \( \widetilde{\chi} \) or \( \widetilde{\chi} \), the stroke indicates that these letters are real consonants, not representing yowels.

#### PUNCTUATION.

A point is put by the side of the final letter of a word. Besides this, the following signs have been introduced by the transcribers:

or or at the end of a sentence,

 $\bullet \bullet$  (also  $\bullet$ ) at the end of part of a sentence, like our colon,

 $\cdot = \bullet^*$  or  $-<^*$  more seldom  $-\bullet^*$  etc., or compound  $-<^*$  etc at the end of a longer sentence or section,

or similar signs, sometimes again and again repeated, between the end of one section, paragraph or chapter, and the beginning of the other.

The numbers are written as in Hebrew (see under)

### SYRIAC

		Fo	rm		-	
Name	uncon- nected	connect- ed with a preced- ing letter	connect- ed with both	connect- ed with a follow- ing letter	Pronun- ciation	Numer. value
Olaph	1	1			Spiritus lenis	1
Beth	9	g	2	O	b or v	2
Gomal	7	7	1	./	g	3
Dolath	?	÷			d	4
Не	a	<b>ு.</b>			h	5
Vau	0	٥			W or V	6
Zain	1	7			z	7
Cheth	-44		•	<b>*</b>	ch	8
Teth	7	<i>⊸</i> 3.	₹.	3	t	9
Yud	9	•	-	•	y	10
Koph	<del>/</del>	<b>y</b>	d	2	ch	20
Lomad	0	0	7	2	1	30
Mim	ox o	×	2	حد	m	40
Nun	•	_	Ţ	ı	n	50
Semcath	a	क	ಹ	ಬ	s	60
Ee	0	0	2	,	y as in hebrew	70
Pe	ے	ع	2	9	p or f	80
Tsodé	3	5			ts or z	90
Quph	عا	9	Q	Q	q	100
Rish	;	<b>;</b>			$\mathbf{r}$	200
Shin	•	-	•	•	sh	300
Tau	2	Δ			th or t	400

#### VOWELS.

The Syriac is written from right to left. — The vowels are expressed by diacritical signs or some marks in imitation of the greek; the latter of which are now mostly in use. In former times both kinds were employed promiscuously.

Fig	ure	Name	nun-
Syriac.	Greek.		Pro ciat
$\frac{\cdot}{\cdot}$	<u>y</u>	Pethocho	ă
= or =	1 1	Rebotzo	ĕ
7	= =	Chebotzo	ĭ
, or .	<u>-</u> .	Zekopho	0
٠	<u>خ</u> <u>ک</u>	Etsotso	00

#### DIACRITICAL SIGNS.

Ruchoch, a point below an aspirated letter to indicate that it is

Ruchoch, a point below an aspirated letter to indicate that it is to be aspirated.

Qushoi, a little point over an aspirated letter to indicate that it is not to be aspirated.

Ribui, two points placed horizontally above the word to indicate the plural.

Marhetono, a line above a letter between two consonants to indicate the absence of a vowel. Besides, this line signifies 1) a number, 2) an abbreviation, 3) an exclamation.

Mehagyono, a line below a letter, to show that though without a vowel it is to be pronounced as if it had one.

Linea occultans, a line placed below a letter to denote that it is to be mute or omitted in pronunciation.

#### PUNCTUATION.

- : marks a single part of the premise
- of a sentence.

  marks the end of a premise; or, it is sign of interrogation.

  marks the single parts of the conclusion of a sentence; or, larger interrogations. interrogations.
- or :: at the end of a period.

#### NUMERICAL VALUE.

NUMERICAL VALUE.

The consonants of the alphabet supply the numbers from 1 to 400; in compound numbers, the greater precedes. Within 500 – 900, the tens from 50 – 90 are denoted by a point standing aloft. The mark under a unit denotes the thousands, the tenthousands multiplied by the tenthousands multiplied by the tenthousands. In writing fractions, the numerator is denoted by a little stroke going from left to right, placed above the denominator.

### LIGATURES.

👱 🗠 Olaph-Lomad. 🏻 🏋 🗓 % Lomad-Olaph. 🦠 Double-Gomal. 🛝 🐃 Double-Lomad.

# SYRIAC

Cut in the printing-office of B. G. TEUBNER in Leipzig conformably to original drawings by Professor Tullberg of Upsala and Professor Bernstein of Breslau.

	Pronun-			Pronun-			Dronus	
Form	ciation	Name	Form	ciation	Name	Form	Pronun- ciation	Name
1 7			29	ark	Gomal	57 J	z	7
2 J	or Spirit.	Olaph	30	gh	Gomai	58 J	(gr. ζ)	Zain
3 J	lenis.		31 ?		1	59 🗻		
4 >			32 •			60 🗻	,,	Cl. Al
5 <b>a</b>			33 ,	d and		61 🟎	kh	Cheth
6 3	b and		34 •	dh		62 🛶		
7 2	bh		35 <b>ÿ</b>			63 6		
8 )			36 😛			64 &		
9 7			37 🤨			65 6		Teth
10 🗢			38 🔞	d	Dolath	66 8	t	
11 🗅		Beth	39 <b>ÿ</b> {		Domin	67 6	•	
12 🗅	b					68 &		
13 5			41 • or			69 4		
14 3			42 9			70 8		
15 ⊃			· 43 • or	dh		71		-
16 🔿	bh		44 🙎			72 🎍		
17			45 🔅			73 👗		
18 🕻	<u> </u>		46 ☀ ∫			74 🗻	i	Yud
19			47 01			75 🗻		
20 5	g and		48 👀			76 <b>:</b>		
21	gh		49 <b>o</b> <sub>1</sub>			77 = }		
22 (5)		_	50 <b>ò</b> ,	h	He	د 78۰		
23		Gomal	51 0			79 🗅		
24 %	g		52 <b>o</b> j			80 >	c and	IT.
25 🝆			53 01			81 2	ch	Koph
26			54 9 )			82 7		
27 <b>&gt;</b> 28 <b>&gt;</b>	gh		55 <b>o</b> 56 <b>o</b>	wvu	Vau	83 7		
20 (2)	,		96 0			84 à }	c J	

				<b>;</b>	SYRIA				
Forn		Pronun- ciation	Name	Form	Pronun- ciation	Name	Form	Pronun- ciation	Name
85	( د		1	115 🗪			145 🙇		
86	<u>خ</u>		1	116 90	) . s	Semcath	146 🗻	sh	Shin
87	<b>c</b>	e		117 90			147 🙇		
88 •	<del>j</del>		1	118 🗘			148 L		
89	<del>,</del>		3	119 💄	1		149 🔈	t and	
90 :	( د		Koph	120 🔪	ee (hebr.	Ee	150 🕹	th	
91 :	ا ج			121 🔪	y)	De	151 🗘		
92	ے ( ا	ch.	)	122 🔌			152 L		
93	ا خ	CII		123 🔌			153 📐		
94	7		- 8	124 🔊			154 L	t	Tau
95	7	J		125 🖭	p > and		155 🏡		
96	/ /			126 鸟	ph(f)		156 L		
97	7			127 鸟		Phe	157 🛴		
98 💙	7	1	Lomad	128 🛎			158 🔉	th	
99 💙	0			129 호 ر	р	4	159 🗘		
100	1			130 🔊	ph f		160 🌣		
101	<i>ž</i>			131 🕏	Pull		LI	GATURI	ES.
102	( ۵		1.3	132 J			161 📉	al	Olaph-
103 2	۵			133 j	·Sharp S	Tsodé	162 🔊		Lomad
104 🕽	ا م	m	Mim	134 j	or SS	rsouc	163.		
105	Ω [	***	141111	135 3			164 🌑		
106 )	0			136 🔉 `			165 🕦		15 11
107 )	0			137 🙇	} k	Quph	166 🕦	gg	Double- Gomal
108	1			138 🚨		&upii	167		
109	7			139 🕰			168		
1	7	n	Nun	140 <b>5</b>			169		
3	<		1.011	141 🕻	$\mathbf{r}$	Rish	170	gv	Gomal-
1	\			142 🦻			1710	0	Vau
1				143 😮			172 0	vn	Vau-
114 🗅	a	s	Semcath	144 🙇	sh	Shin	173 0		Nun

			SYRIAC	
Form	Pronun- ciation	Name	Vowels, Accents and Orthographi- cal Signs	Points and Numbers
174 <b>୯</b> 175 <b>୯</b>	in	Yud-Nun	VOWELS AND ACCENTS.	POINTS. 224 . 229 .
176 N 1	la	Lomad-	204 ÷ } a Pethocho	225 _: 230 : 226 -: 231 ·.
178 💥		Olaph	206 s e Rebotzo 207 :	227 <u>·</u> . 232 ÷ 228 ··.
180 <b>b</b> \(\begin{align*}(181 \\ \beta\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	lt	Lomad- Teth	208 4 209 : i Chebotzo 210	233 & Mark of marginal notes 234 & Number-Mark
183 <b>4</b> 2 184 <b>2</b> 2 185 <b>2</b> 2			211	NUMBERS.  Form Value  1
186 <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	11	Double Lomad	214 > u Etsotso	2 3 ! 4
188 <b>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</b>	lee	Lomad- Ee	ORTHOGRAPHICAL SIGNS.  215 : Ribui	9 5 6 7 ~ 8
192 🔌		<b>T</b> ,	216 - Mehagyono 217 - Marhetono	9 10 20 30
194 🔊   195 🔊   196 🕸	lt	Lomad- Tau	218 . Qushoi, Ruchoch	) <b>o</b> 40 そ 50
197 &	mn	Mim- Nun	219 Little hooks at the beginning of a word	
ر بار 198 ر بار 199	na	Nun- Olaph	221 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3 90 100
$\left\{\begin{array}{cc} 200 & 3 \\ 201 & 3 \end{array}\right\}$	ssn	Tsodé- Nun	222 . Strokes between the single letters to adjust the lines	; 200 300
201 <b>%</b> }	ssg	Tsodé- Gomal	1 1	1 400 1000

# ARABIC

		Fo	rm			
Name	Unconnected	Connected with a preced- ing letter	Connected with both	Connected with a following letter	Pronunciation	Numerical value
Elif	ſ	L			🗙 Spir. lenis	1
Ba	ب	ٰ ب	÷	ڊ	b	2
Ta	<u> </u>	<u> </u>	Ä	ڌ	t	400
Tha	ث	ث	<b>å</b>	ڎ	th	500
Jim	7	~	<i>₹</i> \	<b>ج</b>	j	3
Hha		<u>خ</u>	51	_	hh	8
Cha	خ	<u>ک</u>	兰	خ	ch	600
Dal	さっ	<u>څ</u> پې پې ، ،			d	4
Dhal	ن	ن			dh or ds	700
Ra	,	75			r	200
Zay	,	ر کر		:	Z	7
Sin	ĺ ĺw	ÚM.			S	60
Shin	m	m.	ش	ش	sh	300
Ssad	ص	ص	ے م	ص	SS or Ç	90
Dḍad	ض	ض	ض	ض	d or dd	800
Tta	ط	ط	ط	ط	tt or th	9
Zza	ظ	ظ	ظ	ظ	ZZ	900
Ain	3	ع	2	٠ ء	Spir. gutt.	70
Ghain	ع <u>غ</u> ن	ع غ ف	ż	غ	gh	1000
Fa	ف	ف	ف	ف ف	f f	. 80
Qaf	<u>ق</u> ك	ق	ä	ڌ	k	100
Kaf	1	실	2	5 5	k soft	20
Lam	J	7	7	3	1	30
Mim	م	<b>P</b>	*	,	m	40
Nun	ن .	٠	ند	ذ	n	50
На	s Final s	x Final x	8	ø	h	5
Waw	,	7			w	6
Ya	ی	5	<b>.</b>	ڍ	y, i	10

ORTHOGRAPHICAL SIGNS

#### VOWELS.

Z Fatha, ă ä ĕ Z Kesre, ĭ ĕ Z Damma, oo o

At the end of the substantives the vowels are doubled to indicate the case, viz.:

This is called Nunation, because, in pronouncing, Nun is added to the vowel.

DIPHTHONGS: ai ai as in german.

#### ORTHOGRAPHICAL SIGNS.

- \_e\_ Jezma, separating syllables, is written over the final consonant of all shut syllable and indicates, that the syllable is finished and the consonant to be pronounced with the preceding yowel; it corresponds to the Shwa quiescens of the Hebrew.
- Teshdid, mark of doubling. The final consonant of a syllable being the same as that beginning the following one, this consonant is written only once, but marked with the sign \_\_\_, which corresponds to the Hebrew Daghesh forte. In African manuscripts it is written v or A.
- \_E Hamza is placed generally above the Elif, when this is used as a consonant and furnished with a vowel; when this vowel is a Kesre, the Hamza is placed beneath; sometimes also it stands above the Y. In Kufic Korans it is supplied by a little green stroke, in Moorish or African manuscripts by a thick green or yellow dot.
- Wesla, joining-mark. The Elif, at the commencement of a word, is sometimes in pronunciation absorbed by the final vowel of the preceding word. In this case, the vowel of the Elif is elided and marked by the Wesla.
- Medda stands above an Elif pronounced by Fatha and followed by a Hamza; it indicates the prolongation of the a. It is placed, also, above an Elif at the commencement of a word, or instead of an omitted Elif. Besides, this sign is a mark of abbreviation.
  PUNCTUATION.

There are no signs of punctuation in Arabic, only in the Koran the verses are separated by ... This sign, however, or 'or '' or a red dot, is employed also in other books at the end of a section. In manuscripts, sometimes, a new section begins with a word written in red colour; in manuscript dictionaries a red line is placed above each catch-word.

#### CIPHERS.

Formerly, the Arabs, like other oriental nations, used the letters of the alphabet to express numbers; at a later period, however, they adopted the following 10 special figures, called by us Europeans the Arabian ciphers, by the Arabs themselves the Indian ones.

Regarding their composition and value they accord with our numerals, which are taken from them, whereas the consonants expressing ciphers are written from right to left, viz. 149 (1861).

#### ARABIC LIGATURES

岩谷型岩	Ba-Jim	ثخ	Tha - Cha
الله الله الله الله الله الله الله الله	Ba-Hha	*	Jim-Jim
₹.	Ba-Hha-Jim	3.	Jim-Hha
★ ⇒ ⇒	Ba-Cha	₹ ₹	Hha-Jim
تج تج تج	Ta-Jim	اجج ا	Hha-Jim-Jim
تج تج تج تح تح تح	Ta-Hha	3.	Hha-Jim-Hha
تختختخ	Ta-Cha	Z 3	Hha-Hha
عث	Tha-Hha	3	Hha-Hha-Jim

### ARABIC LIGATURES

خ چ	Hha-Cha	圣圣圣	Kaf-Cha
<i>≠ ∓</i>	Cha-Jim	2 27	Lam-Elif
<i>'</i> ≠ ≥	Cha-Hha	분 후 축 축	Lam-Jim
سے سے سے	Sin-Jim	<u>₹</u>	Lam-Jim-Hha
سے سے سے	Sin-Hha	2223	Lam-Hha
严严盗	Sin-Cha	F F	Lam-Hha-Jim
	Shin - Jim	الح الح	Lam-Hha-Hha
	Shin-Hha	导等等	Lam-Cha
شخ شخ	Shin - Cha	<u> </u>	Lam-Cha-Jim
कं कं कं कं	Ssad-Jim	المجج	Lam-Mim-Hha-Jim
2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Ssad-Hha	<b>≥</b> 4	Lam - Mim - Hha - Hha
व्हे क्टरंब बहु	Ssad-Cha	لی لی	Lam-Ya
<u> </u>	Ddad-Jim	\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$	Mim - Jim
* 48 48	Ddad-Hha	\$ \$\frac{1}{2}\$	Mim-Hha
李奉	Tta-Hha	<u>₹</u> 0	Mim-Hha-Jim
축 후	Ain-Jim	₹"	Mim-Hha-Hha
<u> </u>	Ain-Hha	\$ \$\frac{1}{2}\$	Mim - Cha
غذ بخد	Ghain-Jim	نج نج نج	Nun-Jim
غد غد	Ghain-Hha	نح نح نح	Nun-Hha
نج نج نج	Fa-Jim	خن غذ	Nun-Cha
جَهُ جَهُ جَهُ جَهُ جَهُ جَهُ جَهُ خَهُ خَهُ خَهُ خَهُ خَهُ خَهُ خَهُ خَهُ	Fa-Hha	- <del>*</del> <del>* * * * * * * * * * * * * * * * * </del>	Ha-Jim
فخ نمخ فخ	Fa-Cha	<b>₹</b> ₹	Ha-Hha
في	Fa-Ya	益 強	Ha-Cha
يقم قبح	Qaf-Jim	م	Ha-Mim
يقح قع	Qaf- Hha	ج چ ج ج	Ya-Jim
ار المرابع الموالع الم الموالع الموالع الموالع الموالع الم الموال الم الم الموال الم الم الم الم الم الم الم الم الم الم الم الم	Qaf-Cha	يجج ا	'Ya-Jim-Hha
RK	Kaf-Elif	声声声声	Ya-Hha
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Kaf-Jim	₹.	Ya-Hha-Hha
इ द द	Kaf-Hha	쿡 쿡	Ya-Cha

# AETHIOPIAN AND AMHARIC

							Fo	rm							Pronun- ciation
Name	with	ă	with	û	with	î -	with	â	with	ê	witl	h ĕ	wit	h ô	Pro
Hoi	U	ha	ሁ	hu	ц	hi	У	ha	y	he	IJ	he	U	ho	h
Lawi	Λ	la	$\Lambda$	lu	$\Lambda$	li	1	la	$\Lambda_{\!\scriptscriptstyle \mathbf{b}}$	le	Δ	le	$\Lambda$	lo	1
Haut	Ψ	ha	ሑ	hu	ф,	hi	Ψ	ha	Ψ	he	T	he	Ψ	ho	h
Mai	0	ma	0		02	mi	09	ma	08	me	00	mę	P	mo	m
Saut	W	Sä	W	su	W,	si	W	sa	Щ	se	m	se	w	80	S
Rees	4	ra	4	ru	4	ri	Ln	ra	Lo	re	C.	re	C	ro	r
Sat	Й	sa	Ϊ́Τ	su	ĽL.	si	ሳ	sa	ф	se	'n	se	μ̈́	80	s
*Shat	ii	sha	行	shu	TL,	shi	鬥	sha	Ti	she	ħ	she	占	sho	sh
Kaf	Ф	ka	ф.	ku	Ф.	kı	ቃ	ka	Ф	ke	Ф	ke	ф	ko	k
Bet	Ω	ba	n	bu	A.	bi	n	ba	<b>D</b>	be	n	be	C	bo	b
Tawi	十	ta	#	tu	4;	ti	士	ta	1	te	十	te	4	to	t
*Tshawi	干	tsha	事	tshu	Ŧ	tshi	于	tsha	E	tshe	干	tshe	Ŧ	tsho	tsh
Harm	3	ha	4	hu	4	hī	3	ha	7	he '	叮	- he	40	ho	h
Nahas	4	na	4	nu	7,	nī	355	na	8	ne	3	ne	40	no	n
*Gnahas	7	gna	7.	gnu	4	gnı	4	gna	7	gne	3	gne	₹°	gno	gn
Alf	አ	a	ኡ	u	አ.	1	ኣ	a	ኤ	е	አ	е	አ	0	a
Kaf	'n	ka	n	ku	n	ki	47	ka	மி	ke	អា	ke	5	ko	k
*Chaf	To	cha	Tr	chu	Th	chi	ካ	cha	Th	che	អា	che	T	cho	ch
Wawi	Ф	EW	Φ.	wu	4	WI	P	wa	B	we	Or	we	D	WO	W
Ain	U	a	D	u	02	i	O <sub>1</sub>	a	U <sub>2</sub>	е	Ů	е	O,	0	ע
Zai	H	za	H	zu	H.	Zl	Н	za	Н	26	H	ze	H	20	Z
*Zshai	H	ja	H	ju	H	jı	H	ja	Ж	je	H	je	H	jo	j fr.
Yaman	P	ya	B	yu	P.	yi	P	ya	Po	ye	P	ye	P	yo	y
Dent	2	da	P.	du	R.	dì	P	da	R	de	P.	de	Я	do	d
*Jent	P	ja	更	ju	夏	jı	豆	jа	E	je	P	je	P	јо	j
Geml	7	ga	7	gu	2	gi	כו	ga	2	ge	7	ge	7	go	g
Tait	M	ta	T	• tu	M.	ti	M	ta	Th.	te	4	te	M		t
*Tshait	m	tsha	M.	tshu	M.	tshi	m	tsha	TT	tshe	17,1	tshe	774	tsho	tsh
Pait	8	ра	8	pu	8	pi	8	pa	8	pe	Ŕ	pe	8	ро	p
Tzadai	8	tsa	8	tsu	8	tsi	8	tsa	8	tse	8	tse	8	tso	ts
Tsappa	A	tsa	₽.	tsu	见	tsi-	9	tsa	8	tse	Ą	tse	6)	tso	ts
Aff	4	fa	1	fu	1	fi	4.	fa	Lo	fe	4.	fe	B	fo	f
Pa	T	pa	F	pu	T	pi	T	pa	T	pe	7	pe	$\overline{T}$	ро	p

### DIPHTHONGS.

Фо kua Чо hhua								
Yr kua	n.	kui	1	kua	'O	kue	ነጉ	kue

NOTE.

The Aethiopian and the Amharic are read from left to right. The words are separated by: — The alphabet of both languages is syllabic; the Amharic, however, has seven orders of letters (each order consisting of 7 forms or characters), wanting in Aethiopian, which, in the above table, are marked by \*.

## **AETHIOPIAN**

Cut in the printing-office of F. A. BROCKHAUS in Leipzig under the direction of the German Oriental Society.

With ă	With û	With î	With â	With ê	With ĕ	With ô
<b>v</b> ha	<b>υ</b> ∙ հմ	<b>%</b> hì	<b>y</b> hâ	7 hê	<b>v</b> he	<b>v</b> hô
۸ la	<b>Λ-</b> lù	A. li	Λ là	ሌ lê	<b>a</b> le	<b>Λ</b> • lô
<b>ம</b> ḥa	<b>Ժ</b> ⊷ իմ	ሑ ḥî	<b>ત</b> ḥâ	<b>ம</b> ḥė	A he	њ þô
<b>av</b> ma	<b>a⊳</b> mû	<b>♂2</b> mì	<b>ர</b> mâ	<b>™</b> mê	<b>5</b> º me	<b>q∘</b> mô
w sa	υ· sù	મ્યુ Si	அ sa்	<b>ய</b> sê	پس 'se	<b>y</b> sô
<b>Z</b> ra	🚣 rù	6 ri	& rà	& rê	<b>C</b> re	<b>C</b> rô
<b>ň</b> sa	🊹 sù	<b>ħ</b> ₄ sì	ሰ sà	ሌ sê	ስ șe	هٔ sô
<b>ф</b> qа	🛊 qù	<b>4</b> qì	🔑 qà	<b>¢</b> qê	<b>ф</b> qe	<b>4</b> qò
<b>n</b> ba	<b>Ո-</b> bû	<b>Ω</b> ₅ bì	<b>Ą</b> bâ	<b>₲</b> bê	n be	n bô
🕇 ta	👍 tù	1; tì	ナ tâ	古 tê	† te	<b>k</b> tô
<b>1</b> þa	🛧 hù	<b>%</b> hì	🔰 hâ	<b>ኄ</b> hệ	4 he	4 hô
<b>5</b> na	7- nú	<b>2</b> nì	<b>~</b> nâ	<b>%</b> nê	<b>7</b> ne	<b>q</b> nò
<b>አ</b> -a	<b>ኤ</b> ' -ù	<b>ሉ.</b> -i	<b>አ</b> à	<b>ኤ</b> -è	<b>ћ</b> -е	<b>አ</b> -ዕ
<b>h</b> ka	<b>'n</b> ∙ kù	<b>h.</b> ki	<b>h</b> kà	<b>h</b> kê	<b>h</b> ke	h kô
<b>ø</b> wa	<b>∕</b> wû	<b>Q</b> wi	<b>P</b> wà	<b>g</b> wè	<b>@</b> • we	<b>p</b> wò
<b>o</b> 'a	<b>0-</b> 'û	Oz ci	g 'à	<b>₀</b> , 'è	<b>ø</b> 'e	ø 'ò
H za	H zù	H. zì	H zà	Њ zê	ዝ ze	H zô
<b>e</b> ya	<b>ę</b> yù	R. yi	🖍 yà	& ye	<b>g</b> ye	<b>p</b> ∗ yò
<b>Ļ</b> da	<b>.9.</b> dù	<b>₽</b> , dî	<b>ு</b> dâ	<b>L</b> dê	<b>£</b> de	🔑 dô
<b>7</b> ga	7- gù	<b>1.</b> gì	e gà	<b>3</b> gé	<b>9</b> ge	7 gò
<b>m</b> ṭa	₩ iņ	m, ți	η ţà	<b>™</b> tè	T te	m tò
<b>Å</b> pa	<b>ጵ.</b> pù	🛕 pî	A pá	<b>%</b> pê	ጵ pe	🎗 pô
<b>%</b> za	2. zù	A. zì	<b>A</b> zá	& zê	<b>%</b> że	% żo
<b>0</b> za	<b>0</b> ∙ zù	<b>L</b> zì	9 zà	<b>2</b> zė	ð ze	<b>9</b> żó
<b>ढ़</b> fa	<b>4.</b> fù	& fi	<b>4.</b> fâ	<b>6₀</b> fè .	<b>द</b> fe	<b>6</b> ° fò
<b>T</b> pa ,	<b>7:</b> թմ	<b>T</b> pì	<b>J</b> på	<b>T</b> pè	T pe	<b>y</b> pô

DIPHTHONGS.

ho	kua	ሎ	kuî	H.	kue	<b>ካ</b>	kuà	ኴ	kuê
Po	gua	74	guî	7.	gue	3	guâ	<b>7</b> .	guê
ቈ	qua	ቀሩ	quî	<b>ቀ</b> ኣ	que	央	quâ	ቌ	quê
"lo	hua	74.	huî	7.	hue	3.	huâ	7	huê

PUNCTUATION.

: Stop for the division of words : Comma : Semicolon :: Full stop

NUMBERS.

# K C

Ethiopic, formerly the vernacular language of the Abyssinians, by whom it was called Gèèz, is only preserved in writings. As a Semitic language it bears a close affinity to the Himyaric, a South-Arabian dialect, which was superseded in the times of Mahomed. The Ethiopic possesses a high degree of flexibility which is mainly due to the diligence with which the study of Greek writings was cultivated in Abyssinia. The Alphabet originally consisted of consonants without indications of vowels. In form it approaches the Himyaric and thus differs from the other Semitic characters. Ancient Ethiopic inscriptions show examples of writing from right to left; owing, however, to the early influence of Greek literature, especially after the introduction of Christianity, the arrangement of words was fixed from left to right. At the same time the coalition of consonants and vowels was indicated by particular forms, which gave rise to the adoption of a complete syllabarium. With the change of the ruling power in the fonrteenth century the Ethiopic language began to decay, and rapidly falling into disuse, it is now replaced by the Amharic language.

### AMHARIC.

This language deriving its name from the kingdom of Amhara in Abyssinia, has supplanted the ancient Ethiopic idiom. The kings of Shoa, on gaining the upper hand, effected the preponderance of the Amharic language, to the exclusion of the kindred Ethiopic. The Alphabets of both languages are identical, except the following Characters, which are peculiar to the Amharic language.

with û	with î	with â	with ê	with e	with ô
ሹ shû	ሽ shî	ፕ shâ	ሼ shê	ሽ she	<b>ጽ</b> shô
👍 tshù	🔁 tshì	ား tshá	😮 tshê	🕇 tshe	🗱 tshô
7- ñú	T ñi	<b>な</b> ñâ	Z nê	🐐 ñe	🌴 ñô
൹ khú	<b>ኸ</b> khî	ኻ khâ	ኼ khê	<b>'n</b> khe	7 khô
<b>IF</b> jù	<b>nc</b> jî	<b>ℋ</b> jâ	<b>Դը</b> jê	<b>y</b> je	<b>T</b> jô
<b>K</b> . jù	K jî	<b>Ģ</b> jâ	<b>g</b> jê	<b>Æ</b> je	🃜 jô
<b>66</b> chhû	<b>ட</b> chhì	<b>ഏ</b> chhâ	<b>G</b> r chhê	<b>%</b> chhe	<b>ு</b> chhâ
	1	DIPHTHONGS			
	The shu The tshu The khu The khu The ju The ju	The shú The tshú The tshú The tshí The khú The khú The khí The jú	The shu The shi The sha The tshu The t		The shủ The shi The sha The she The she The sha The she The sha The she The she The sha The she The sha The s

4	lua mua	ጿ	šua	አ	nua	<b>A</b> tua	
ðij	mua	2	bua	ц	zua	<b>டி</b> çua	
K	rua	女	tua	ř	yua	🔏 zua	
2	sua	天	cua'	- ዷ	dua	🕻 fua	

### TURKISH.

The Turkish language is a compound of words taken from the Tatar, Persian and Arabic languages. The high dialect, only spoken at Constantinople by people of quality, and serving as the written language, is a compound of Persian and Arabic words. Like most oriental languages, Turkish is written and read from right to left.

- Lif supplies the german vowels a, y, o, u, the consonants of the word being hard; but the german  $e, i, \ddot{o}, \ddot{u}$ , the consonants being soft. When Alif is followed by a hard consonant, the  $\underline{\hspace{0.2cm}}(Ustun)$  is pronounced like a, the  $\underline{\hspace{0.2cm}}(Ustun)$  is pronounced like a, the  $\underline{\hspace{0.2cm}}(Ustun)$  is pronounced like a, the  $\underline{\hspace{0.2cm}}(Ustun)$  is consonant, the  $\underline{\hspace{0.2cm}}(Ustun)$  is to be read as e, the  $\underline{\hspace{0.2cm}}(Esre)$  as i, and the  $\underline{\hspace{0.2cm}}(Utru)$  as a or u. In the middle and at the end of words, without Hamzalif, the Alif is always pronounced like a, but with Hamzalif, like  $\hat{e}$ .
- Ba is our b. After Ta, Tha, Jim, Cha, Sin, Shin, Ssad, Tta, Qaf, Gef it is often read like p.
- Pa is our p.
- w Ta is our t. In the conjugation of some verbs it is changed into Dal.
- ن Tha is our s or ss, except the word ثلث tult. The Arabs pronounce it like th.
- Jim, the italian g before e or i. When meeting the consonants named above in connection with the letter  $oldsymbol{.}$ , it is pronounced like Tchim.
- Tchin like our ch in chess.
- Hha like h in have.
- Echa, the german ch in branchen.
- Dal like d. It is pronounced like t when meeting the consonants named above in connection with the letter ...
- 3 Dhal like z.
- , Ra like r.
- Za like our z.
- Sin like s, ss.
- Shin like sh.

- Ssad like sharp ss.
- Ddad, like our z; the Arabs pronounce it like d.
- ₺ Zza like our z.
- $\mathcal{E}_{y,u}^{Ain}$  like a strong guttural and nasal a,
- خ Ghain like g guttural.
- Fa like our f.
- G Qaf like k, kh or ck.
- Kaf, like q or k, as in the french words qui, quel.
- Gef, accords with our g in give; in some cases it is pronounced like gi very soft; in the middle of words and in some terminations like y.
- Saghur Nun, i. e. mute Nun, like the french nasal-n in mon, son.
- J Lam our l; in some cases it is soft like l in limb, in some hard like l in a ll.
- Mim, like m.
- $\underbrace{\quad \quad }_{Nun \text{ our } n; \text{ but when followed by a } Ba,}$ it is pronounced like m.
  - Waw our w or v; furnished with Utru, it is pronounced like u in conjunction with hard consonants; like german ü or ö, how ever, in conjunction with soft ones.
- $\mathfrak{D}$  Ha like our h; at the end of words it is mostly pronounced like a or e.
- y Lamelif., la or lia (Ligature).
- Ya, when a consonant like our y, when a vowel like i; it represents a vowel only in the middle or at the end of words.

### ORTHOGRAPHICAL SIGNS.

- Ustun is placed over the consonants and pronounced like a with a hard consonant, like e with a soft one.
- Esre below the consonants, is pronounced like vowel y with a hard consonant, but like i with a soft one.
- Utru is pronounced like o or u with a hard consonant, but like o or u with a soft one.
- = Iki ustun (double Ustun) like en.
- " Iki esre (double Esre) like in.
- 9 Iki utru (double Utru) like on or un. The three last marks are only employed in Arabic words.

- Jesm (sign of pause) is placed over a consonant wanting a vowel, followed by an other consonant.
- Teshdid or Shedde when placed over a consonant doubles it.
- ~ Meddelif or Medda, is only placed over the Alif, which, then, is always pronounced like a.
- $_{\mathcal{P}}$  Hamzelif or Hamza: placed over Elif, is pronounced like  $\hat{e}$ ; over Waw, like u, over Ya, like i; at the end of words, ending with a vowel, like i.

# PERSIAN

		F	orm				
Name	uncon- nected	connected with a preceding letter	connected with both	connected with a following letter	Pronun- ciation	Numer: value	Notes
Elif	<b>\$</b> 1	Ĺ			Spiritus lenis	1	Many Arabic words having been
Ba	ب	ا ب	٠	ڊ	b	2	introduced into the Persian language, the Persian alphabet consists of 32
Pa	پ	ا پ	<b>\$</b>	ډ	p		consonants, which are written and
Ta	ొ	ت	Ä	۰ ڌ	t soft	400	read from right to left; of these consonants, 28 are common to both
Tha	ث	ث	:	ڎ	S sharp	500	languages; only the following four are purely Persian:
Jim	7	2	₹\	<b>&gt;</b>	j	3	1 1
Tchim	E		\$1	<del>\$</del>	tch		گ ژچ پ
Hhá		8	51	>	hh sharp	8	VOWELS.
Cha	て	is	这	خ	kh guttur.	600	All Persian letters are consonants,
Dal	3	かかから	·		d	4	except Elif, Waw and Ya, which also supply long vowels (the Waw, some-
Dhal	ن	نا	!		Z soft	700	times, represents a short vowel):
Ra	,	7			r	200	la y w sy
Za	>	5		1	Z soft	7	The short vowels are written thus:
Zha	ژ	7			Zhorjfrench		∠Zabar, a ZZir, e → Pish, u
Sin	J	m		.w	S sharp	60	ORTHOGRAPHICAL SIGNS.
Shin	ش	m	ش	شر	sh	300	Hamza, at the end of a word.
Ssad	ص	ص	2	ص	S sharp	90	sometimes supplies the Elif; it is
Ddad	ض	ف	غ	ض	Z hard	800	also placed above an Elif in the middle of a word, when the Elif
Tta	ط	च	由	ط	t	9)	represents a consonant,
Zza	ظ	≐	<u>ظ</u>	ظ	Z hard	900	w Teshdid, doubles the letter over which it is placed.
Ain	ع	3		2	Spiritus lenis	70	- Medda. Instead of an Elif
Ghain	غ ف	غ	Ż.	غ	gh guttur.	1000	written twice, a Medda is placed over it. It is properly a second Elif,
Fa	ف	ف	ف	ۏ	f	80	but written lengthwise; sometimes it has a vertical form.
Qaf	ق ك	ق	ë	ۊ	k guttur.	100	• Jezma, over a consonant by
Kaf	ك	1 2	کے		k	20	which a syllable ends. It is also placed over Waw or Ya, when they form a
Gaf	ػؙ	ٹی	کڪ	څ څ	g palatal		diphthong with a preceding.
Lam	J	7	1	j	1	30	
Mim	۴	1	1 + 1	D	111	40	CIPHERS:  To write numbers, the Persians
Nun	ن	0	i	ذ	n	50	employ either the alphabet, or the Arabic ciphers (see under).
Waw	,	7			W	6	Atomic cipilets (see under).
На	8	X	8	ھ	h	5	LIGATURE.
Ya	ی	5	÷	ي	y and i	10	ソン Lam-Elif, la.

### AFGHAN OR PUSHTOO

	Figure		Pronun-		Pronun-		
unconnected	in the midst	at the com- mencement	ciation	unconnected	in the midst	at the com- mencement	ciation
ţ.	16	1	a, á, i, u	ش	ش	ش	sh
، ب	•	؞ۮ	b	ښ	ابند بښ	ىپد	khín
پ	<b>*</b>	پ	p	ص	<u>م</u>	ص	ss
ఆ	ټ ا	ڌ	t	ض	ض	ض	dz
ټ		ڐ	ţţ	ط	ط	ط	t
ث	٦	ڎ	t's	ظ	ظ	ظ	Z
Ĉ	之	څ	t's	ع	2	ء	æ, â
5	₹.	<b>ج</b>	j	غ	ż	٠ غ	gh
	\$1	چ	ch	ف	ف	خ ا	f
こう	2	>	h	ق	ë	ڌ	k, q
<u> </u>	这	خ	kh	త	2 2	5	k
3	۵	ى	d	- می	ک ک	\$	g
ؠ	4	٥	dd	J	1	3	1
ن	ن	ن	z	م	+	so.	m
,	7	,	r	ن	i.	ذ	n
2	,	,	ii	ن	· · ·	ڼ	ŗŗn
ŝ	3	3	z	,	,	,	w ú o
÷	Ë	ڎ	dz	8 X	8	ھ	h
ژ ر	l r ĉ	څ د	jz	ء	2	دً	a
<u></u>	سب	سبر	s	چ	٠.	ڍ	y, e, í, a

#### NOTES.

Before the introduction of arabic words, the original Pushtoo alphabet consisted only of 29 different sounds; at present, the Afghans make use also of the 28 arabic letters, and of these four letters used in Persian: 

'' and '', from which results an alphabet of 40 different characters which are all consonants.

The Pushtoo vowels are the same as the Arabic and Persian:

Zabar or Fatha a, Zer or Kasrah e,
Pesh or Zammah u.

They are placed either above or under the consonant beginning a syllable, as: ba, bi, bi,

diphthong au; followed by  $\leq$ , as the diphthong ai.

- o or <u>o</u> Jesm or Jesmah indicates that the consonant has no vowel and the syllable is finished.
- Meddah or Medd, an other form of Elif, is sign of producing a syllable.
- \_w Teshdid indicates that a consonant is to be pronounced double.
- \_ Wesla, joining-mark.
- Hamzah supplies the place of Elif.
- S Tanwin is the arabic Nunation at the end of the words, pronounced by adding a n to the vowels: an, in, yn.

# COPTIC

Figure		Name	Pronunciation	Notes .
2	2	Alpha	ă	The Coptic language is divided into two dialects: the
В	В	Vida	b v	upper - egyptian or thebaic or sahidic, and the lower-
$\Gamma$	ŋ	Gamma	g	egyptian or memphitic or coptic par excellence, to which may be added a third, the bashmuric dia-
λ	λ	Dalda	d	lect. The letters & — W in the Coptic alphabet
G	$\epsilon$	Ei	ĕ	are of greek origin; q — S on the other hand signify sounds which either wanted at all in the greek
ζ	ζ	Zida	Z	language, or which since the christian era no longer used in writing; they are taken from the older egyptian.
-H	н	Hida	ĭ	This sign if denotes the syllable ti; its prototype
$\overline{\theta}$	0	Thida	th	is the semitic and greek Tan. The vowels are:
I	J	Jauda	ĭ	& E 1 0,
R	K	Kabba	k	the oo is written by OY, like in greek; before
λ	λ	Laula	1	a consonant it is pronounced by oo, before a vowel
Ü	u	Mi	m	by v. The coptic diplethongs are:
Ň	n	Ni	'n	81 E1 O1
ξ	ξ	Exi	X	pronounced in the sahidic dialect only as č, ĭ, ĭ, in the memphitie, however, as the german diphthongs
Ö	0	0	O short	ai, ei, oi.
п	π	Pi	p b	
P	p	Ro	r	READING-SIGNS AND PUNCTUATION.
C	C	Sima	S	` above a letter: the greek gravis. ` behind a word in sahidic manuscripts: dividing
Ť	7	Dau	t d	sign.
Ŷ	r	He	i, Ü Germ.	•J• signifies a greater pause, like our semicolon or point.
φ	ф	Phi		signifies a shorter panse, like our comma.
X	X	Chi	ph ch sc	- sign of division.
Ψ	ψ	Ebsi		sign of abbreviature above the characters.
W	w	O	ps	graphic sign above some characters in sahidic manuscripts.
P	g		0 long	<ul> <li>diacritic sign behind some words in sahidic manuscripts.</li> </ul>
S	S	Fei Howi	f ph	, Comma, only in later sahidic manuscripts.
Ь	2	Hori	h 1-b	orthographic sign above some characters in mem-
ווו		Chei	kh	phitic books.
$\tilde{\tilde{\mathbf{x}}}$	<b>x</b>	Scei	sh g dub	NUMERICAL VALUE
4	6	Giangia	g dsh	NUMERICAL VALUE.  The numerical value of the coptic characters is the
4P	寸	Scima	sk sc gh	same as in greek. Numerals are written by - above
- C		Dei Ligature		the letters; the thousands are marked by , below near the letter. $\mathbf{q}$ (90) supplies the place of the greek $\mathbf{q}$
7	B	So	Cipher 6	(koppa).

### CHINESE.

A calculation, based upon the Imperial Chinese Dictionary, shows that the Chinese language is represented by 43,496 characters or symbols. Of this number 13,000 are totally irrelevant and consist of signs which are obsolete, incorrectly formed, and unexplained. For the expressions in ordinary literature about 4000 signs appear to suffice. The writings of Con-foo-tse (Confucius) and his disciples can even be read by the help of only 2500 characters, and a knowledge of these will enable the student tolerably to understand all Chinese works on history and philosophy. In lieu of the phonetic and lexicographical system, which appertains to most languages, the Chinese have adopted 214 signs any of which, being placed by the side of an unknown character, indicates at once its pronunciation. These indicators of sound, are termed by the Chinese "Tribunats". European grammarians have called them "Keys" or "Radicats". Occasionally the "Tones" (modulating accents) are appended at the top or foot of the character, at the right or the left side. Such accents are described as follows,

1 o even tone. 2 o entering tone. 3 o falling tone. 4 o rising tone.

The "Keys" are divided into 17 Classes, according to the number of strokes of which each character is composed, and are arranged in the following order: | Class | 10. consisting of 10 strokes extends from Nr.187—194 | 11. " 11 " " " " " 15—200

· Cla	ss consistin	cof1 s	troka az	rtanda	from	Nr 1_	Class		g of 10	stroke	hat <del>v</del> a za	s from N	r.187—194
2.	»	» 2 s	trokes	>>	>>	» 7—	29 11.	>>	» 11	>>	>>	n) n	195-200
3. 4.	» »	» 3 » 4	»	» »	)) ))	» 30-0 » 61—		<i>)</i> )	» 12 » 13	)) ))	)) 1)		201—204 205—208
5.	»	» 5	>>	»		» 95—		>>	» 14	» ·			209—210
6. 7.		» 6 » 7	"	» »		» 118—: » 147—:		» »	» 15 » 16	)) ))	» »		211 212—213
8.		» 8	»	»		» 167—		»	» 17	))	>>	)) ))	214
9.	»	» 9	»	»	»	» 176—							
1	<del>-</del> 0	yĭ, on	e		17 c	Ц	kăn			33	士。	s'z, s	scholar
2		arcura	ar stro	en- ke			tou, k				久。		
3	•	tien,	point			• 0	liĕ, st				7		, slowly
	J .1	ing	to the	ant- left	20	力。	chwen	ı, eqi triai	nal, ngle				, evening
5	乙。	yi, cresti	ooked ooke				pi, sp			Ť	大		
	1.	S	troke	l			fang,				女。		
7 0	,_	urh,	two	loc	23	L.	kwah betw	, divis	sion elds				son, child
8 6	,	yitièn	-yiwa		24	十。	shiàh,	, ten					r poĕn-an hat
9	人。	jin , $m$	an				poh, t		ne		4。		
10	儿。	chàh,	foot		26	11.	tsshi				小		
11	人。	shàh,	.to ent	ter			shi, sl						, horrible
. 12	八。	pah,	eight		28	4°	chee,	perve	rse		户。		corpse
13	$\Box$	kwah	, dese	rt	29	Nº	yiu, a	gain,		45	Щ°	tsou	

moreover

kiu, mouth

hwei, return

too, the ground

32°±

14 o mièn, to cover

15° y pin, ice

16 L° chì, bench

46 III ° san, mountain

47 chuến, stream

48° **T** kòng, artisan,

time

49 <b>C</b> ° chi, self,	73 $\exists$ yuěh, to talk 97 kwah, melon
50 Hi chin, cloth	74 月。yueh, moon 98。瓦 wùh, tiles, earthenware
51° 7 kan, shield, spear	75 木。moh, tree 99 耳。kan, sweet
52 yuĕn, source	76 大° chièn, debtor 100 生° senn, to live, to give birth
53 o yin, hut	77 $\coprod$ ts', to stop 101 o $\bigwedge$ yong, to use
54 2 ° tsou, long walk	78° 万 tie, wicked 102 日。tièn, field
55 <b>H</b> kóng higher	79 Kòh, the young of animals 103 E. pičh, piece
56 <b>t</b> , yiếh , spear	80° # f'6, is not 104 # o tsiëh, sick
57 🛱 o köng, a bow	81 H. pi, to compare 105 % fùh, to divide
58 <b>L.</b> kway, Come!	82。毛 mou, feather 106 角。buh, white
59 <b>3°</b> san, coat	83 氏° sz, clan 107。皮 bi. skin
60 <b>7°</b> shuang-jin, two	84 & chi, air 108 min. implement
61 Sin, heart	85 水° shway, water 109 目。moh, eye
62° <b>%</b> kõh, a lance	86 . K chaw, fire 110 . To madh, spear
63 $p$ $w'\bar{o}\bar{o}$ , inner door	87 爪° tsou, claws, nails 111 矢° shi, acrow
64 手 <sup>°</sup> sheu, hand	S8° 女 f'óh, father 112 石。 shièh, stone
65 麦° tz', branch	89 o 爻 yow, sign   113
66 Z° chi, the stalk	90 H, chwang, pole 114 H, nahy or shoh, clapper of a bell
67 <b>文</b> funn. gentle	91。片 pièn, splinter 115。禾 haw, grain
68 of tou, a measure	92 , F yah, teeth 116 R , yučh, cave
69 F, chin, hatchet,	93°4 niu, ox 117 <b>L</b> ° liĕ, to stand
pound fang, a square,	94°犬 chưến, dog 118 竹° choh, bamboo
pound 70 方 fang, a square, then 71 无 fe, no	
72 <b>H</b> shèh, sun, day	96 玉。niòh. gem 120 茶°s'z, silk

191	6' an : an	145	木	i, clothing	169°月月	mun, a door
	o f'ow, jar		_			fou, a mound
1	kang, hedge			yiu, twilight		
0 •	yang, sheep		, u	chièn, to see	171。来	
124 3	ü, long feathers	148 °	角	krìh, horn, cor-	172°佳	
125 老	laò, old	149	言	nièn, word	173	•
126 1	urh, and	<b>1</b> 50	谷。	kòh, apertures in rocks	•	o tsin, green
0	lie, handle of a spade	151 °	豆	tou, head	175 非	' '
	ull, the ear	1	, 豕	shü, swine		mièn, face
129	yuěh, to mani- fest, a baton	153	豸。	chi, superior or- der of animals		• kĕh, leather
0	$j\delta h$ , flesh			pèi, valuables		hway, high
131	chin, an official	155	赤。	chĕh, red		chiu, leeks
132 自	o ts'z, from one self	156	走。	tsou, to walk		yin,a sound, tone
133 至	o tsz, to arrive,	157	足。	tsòh, leg		hièh, a sheet, a leaf
134 白	o chiu, mortar	158	身。	shin, body	182 風	fong, wind
135 舌	o chweh, tongue	159	。車	chü, eart	183°飛	fee, to fly
136	chiah, strong	160	辛	sin, bitter, hard- ships	184 食	shëh, to eat
137。角	chiu, vessel	161	。辰	jěn, an hour,	185。首	sheu, head
138 艮	kun, inferior or- der of nature	162	辵	tseu, to run	186。杳	shiang, scent
	seh, colour		邑。	$j \tilde{e}$ , a town	187°馬	måa, horse)
	tsaò, grass			yoo, twilight	188° 骨	kwùh, bones
141。片	'hoo, tiger	165	Ti.	tsie, to separate	189° 言	kaò, high
142	chong, insects	166	里	li, one third of a mile	190 長	kað, whiskers, beard
143	1° shwëh, blood	167	金	chin, gold, metal	191 年刊	tou, to fight
144 1	jěn, to walk, to	168	。長	chang, long	192	chang, sweet wine

193 <b>鬲。</b> lièh, to cup open	201。黄 hwang, yellow	208 🙀 ° chü, rat
194 kway, devil		piëh, nose
195 🤼 nü, fish	203 Kon hèh, black	210 zik o tsi, to put in order, equal
196° 🗐 niaò , bird	204 节° chi, embroidery	211 kg o ts'z, the back teeth
197 loo, brine	205 o iii min, a toad	212。首 long, dragon
198 <b>삕。</b> lòh, stag	206 III tin, tripod	213 🌉 o kway, tortoise
199 🎉 mèh, wheat	207 o 鼓 koo, drum	214 proposition 214 proposition with 214 proposition 214 proposition with the proposition of the proposition
200 må, hemp		

#### ARITHMETICAL FIGURES.

All arithmetical combinations are performed by 17 Cardinal figures. In the subjoined table, three different forms of numerical characters are given. The series in the left column represents the plain hand which serves for literary and ordinary purposes. In the middle column words are employed instead of figures. This class is used in bonds, contracts etc., where it is of importance to guard against alterations and frand. The figures in the right column, written in a "running hand", are used by merchants and traders in keeping their business accounts.

<b>一</b> 壹。   yĕ, 1	十拾十	shiàh, 10
二 貳。    wh, 2	百。有	$p\tilde{e}h$ , 100
三 类。II san, 3		tsièn , 1000
四肆。又 s'z. 4	萬 万	van, 10,000
五。伍 3 00, 5	億 佬	ee, 100,000
方陸。上loh, 6	兆旭	chaò, 1,000,000
上 柒° = tsiē, 7	京。ま	chin, 10,000,000
八°捌 ≡ pùh, 8	坡 惊。	nyàh, 100,000,000
九 玖° 文 chew, 9		

The numbers by which 10, 100 etc. are multiplied are placed at the top of the multiplicand. The numbers added to ten etc., are marked below the figure.

Example + ten. = twice ten and two, or 22.

## **JAPANESE**

### IN THE KATA-KANA CHARACTER.

(This type was cut under the direction of Prof. J. Hoffman of Leyden and cast by N. Tetterode in Rotterdam.)

I - RO - FA	( A b c).		Japanese Alph ganically arranged.	
I-RO-FA  25 井 yi 26 丿 no 27 オ o 28 ඵ ku 29 ヤ ya 30 マ ma 31 ゲ ke 32 ン fu 33 コ ko 34 エ ye 35 テ te 36 ア a 37 サ sa 38 キ ki 39 ユ yu 40 メ me 41 と mi 42 シ si	(Abc).  1 イ 1 2 口 ro 3 ハ fa, va 4 二 ni 5 歩 fo 6 ~ fc, ve 7 ト to 8 チ tsi 9 リ ri 10 又 nu 11 ル ru 12 ヲ wo 13 ソ we 14 カ ka 15 ヨ yo 16 ダ da 17 レ re 18 ソ so			
43 文 c、 44 Ľ fi, vi	19 <b>ツ</b> tsu 20 子 ne	23 # sa 24 # za	47 4 mu 48 /) fa	72 12 ro 73 12 ru
45 € mo 46 ℃ se 47 ‰ su	21	* The accent nigoright of the syllable a dot likewise at the addition of these n	ori, consisting of two softens the consonau he right, hardens the narks and the n, unally 47, are raised to the	minute marks at the t. The accent maru, consonant. By the ttended by a vowel.

#### ABBREVIATIONS AND ORTHOGRAPHICAL SIGNS.

- 7 koto. 7 goto. メ site. 王 tama.
- Y Sign of doubling a letter, placed in the middle line.
- Sign of doubling a syllable.
- | Sign of lengthening a vowel.
- ° Full stop. Y comma, towards the right, beyond the middle line.

## SANSCRIT

#### CONSONANTS.

Each consonant is sounded with an inherent short a.

GUT	TURALS.	LA	BIALS
क	ka	प	pa
व	kha	দা	pha
ग	ga	ब	ba
घ	gha	भ	bha
ङ	'nа	म	ma
PA	LATALS.	SEMI	-vowels
च	cha	य	ya
इ	ch'ha	1 2	ra
ज	ja	ल	la
क	j'ha	व	va
ञ	ña		
CER	EBRALS.	SIBIL	ANTS AND
7	ţa	ASP	IRATES.
ठ	tha	श	sha
उ	<b>d</b> a	प	sh'ha
5	dha	स	sa
गा	ņa	ह,	ha
DE	NTALS.	盂	1
ิส	ta		raçter peculiar
य	tha	to the B	lig-Veda has a
द	da	of t and	which partakes r. It stands for
ध	dha	it repres	bral da. When sents the aspi-
ন	na	expresse	this letter, it is ed by (thu).
	ADDITI	ONAL SIG	xs.

- Viràma (pause) is placed under a final consonant, and denotes the absence of the inherent short a.
- indicates the close of a sentence, ending in a vowel, a diphthong or a visarga. In poetry it denotes the half of a verse. At the end of a verse or a period this mark is doubled ||.

- Serves 1. as the sign of hiatus, 2. as sign of the clision of a after e and o, 3. as the sign of coalescence of two a.

  of is the sign of abbreviation.

  and a represent the letter r. The former sign is pronounced before the consonant (and the semivowel ri) at the top of which it is placed; the latter sign is placed under the consonant and sounded after it.

#### VOWELS.

The vowels in the left row are uttered as initials or are placed before their consonants. The vowelsigns in the right division being medials and finals, coalesce with their consonants, and are respectively placed over, under, before and after the letter.

	the le	tters.	
類	a	COALESCENT	VOWELS.
म्रा	â	lâfollowst	
इ	i	fiprecedes	» »
19 cm 29	î	7 î follows	
	u	∘ u under	9 9
3	û	e√û »	n 1)
₹	ŗ	a P	
∓स्	ŗ	c j.	, ,
लृ	1	હ ∱ "	n p
ત્નૃ	Î	w !	9 7
DIPH	THONGS.	wi.	
र	е •	↑ C over	1) ))
ष्	ai	≈ai "	a s
ग्रा	0	7 0 follows	
ग्री	au	าุิลแ ∗	a) D

#### NASAL SOUNDS.

. Anusvåra and . Anunåsika, are substitutes for m and n. The annuåsika has its place above the letter or laterally with virama underneath.

: ի (օւրւօրույց է) visarga, + jihvâmúliya

and  $\times$  upadhmaniya, are strong final aspirates. The visarga which is the substitute for s and r is the only one in common use. The last two signs bear also the common designation of ardhavisarga.

#### PROSODIAL MARKS.

I denotes brevity, S length.

#### ACCENTS.

Anudâtta or grave accent stands under the vowel. Scarita or circumflex is put over the vowel. In connexion with these marks the numerals

9 and 3 serve as accents.

NUMERALS. 4 & 0 G 0 5 6

## SANSCRIT

The similarity of shape occasions mistakes in correcting proofs; it may therefore be of advantage both to compositors and readers of proofs to make use of the annexed numbers of reference. The form of the subjoined Alphabet differs from that which precedes, but is superior in point of correctness.

1 ऋ	a	27 ~m	re(withAcc.)	<sup>53</sup> क्य	kya	79 ड्र	ńka
<sup>2</sup> आ	â	28 🔊	ai (with Acc.)	54 <b>新</b>	kra	80 <b>ड्रा</b>	ńkta
<sup>3</sup> <b>ड्</b>	i	29 🖚	raim	55 .弄	kra	81 🛐	ńkya
4 ई	î	30 🕻		56 क्क	kla	82 폃	ńksha
5 <b>3</b>	u	31 •		57 <b>an</b>	kva	83 ह	ńkha
6 <b>あ</b>	û	32 🐱		58 स्	ksha(x)	84 ह्म	ńkhya
7 ऋ	ŗi	33	Ac	59 <b>E</b>	ksh	85 क्	ńga
८ ऋ	<b>ŗ</b> i	34	Accents	60 <b>द्</b> म	kshma	86 <b>33</b>	ńgya
9 स्ट	ļi	35 •		61 <b>स्य</b>	kshya	87 ज्ञः	ńgha
10 ल्ह	ļi '	36 -	and c	62 <b>ट्</b> च	kshva	९९ झ्व	ńghya
ा ए	e	37 <b>S</b>	other orthographical	63 ख	kha	89 🔓	ńghra
12 <b>T</b>	â	38 5	ori	64 <b>E</b>	kh	90 ड्रः	ńńa
13 <b>f</b>	i	39 ×	thog	65 <b>ख्य</b>	khya	91 च	cha (ća)
14 7	î	40 ^	rapl	66 म	ga	92 モ	ch (ć)
15 <b>F</b>	rî	41 -	iical	67 <b>J</b>	g	93 ह	ćća
16 🥦	u	42	signs.	68 म	gna	94 च्छ	ććha
17 🖎	û	43 🤇	ns.	69 ग्यू	gnya	95 <b>国</b>	ćňa
ر ع 18	ŗi	44 K		70 य	gra ·	96 य	ćma
19 <b>&amp;</b>	ŗi	45 🖚		71 ग्रम	grya	97 च्य	ćya
20 °C	ļi	<sup>46</sup> का	ka	72 <b>घ</b>	gha	98 छ	ćha
21 %	ļi	47 <b>क</b>	kka	73 <b>E</b>	gh	99 छू	ćhra
22 ~	e	48 雨	kta	<sup>74</sup> 핅	ghna	100 ज	ja
23 🗢	ai	49 तथ	ktya	75 <b>24</b>	ghma	101 3	j
24 7	0	<sup>50</sup> <b></b>	ktva	76 घ्य	ghya	102 ज्ज	jja
25 🛰	e(with Acc.)	51 <b>क्र</b>	kna	77 घ्र	ghra	103 ज्	jña
26 ~	re	52 <b>का</b>	kma	78 इ.	ńa	104 🕏	jñ
					1		

$\alpha$	Α.	X	$\alpha$	C1	Ta a	ы

		1		1 1		i	
105	jjha	133 राड़	ņḍra	161 <b>E</b>	th	189 ध्य	dhya
106 ज्य	jya	134 राड्न	ņḍrya	162 च्य	thya	190 舅	dhra
107 ज	jra	135 गुढ	ṇḍha	<sup>163</sup> ट्	da	191 ध्व	dhva
108 ज्व	jva	136 स्म	ņņa	164 दु	du	192 ਜ	na
109 كې	jha	137 एय	ņуа	165 टू	dû	193 🖚	n
110 新	jha	138 एव	ņva	166 ਵ	dŗi	194 न्त	nta
ш ज	ňa	139 त	ta	167 द्र	dga	195 न्य	ntya
112 5	ň	140 7	t	168 ব্র	dgha	196 न्त्र	ntra
113 ञ्च	ñća	141 त्क	tka	169 <b>ह</b>	dda	197 न्ट्	nda
114 ज्ञ	ñ <b>j</b> a	142 त्र	tta	170 ਵ੍ਹ	ddba	198 न्द्र	ndra
<b>5</b> 211	ţa	143 त्य	ttya	171 द्य	ddya	199 न्ध	ndha
116 द्व	ţka	144 न्त्र	ttra	172 ह	ddha	200 न्ध्र	ndhra
117 ट्ट	ţţa	145 岩	ttva	173 द्धा	ddhya	201 न्त	nna
118 ट्य	<u>t</u> ya	146 ਵਿ	tna	174 🚆	dna	202 <b>न्प्र</b>	npra
119 3	ţha	147 <b>त्प</b>	tpa	175 ह्व	dba	203 न्फ	npha
120 ट्य	thya	1,48 成	tpra	176 夏	dbra	204 死	nphra
121 夏	<b>t</b> hra	149 त्फ	tpha	177 🙀	dbha	205 न्म	nma
122 ह	фа	150 成	tphra	178 द्वा	dbhya	206 न्य	nya
123 ड्रु	ффа	151 तम	tma	179 द्य	dma	207 न्स	nsa
124 롷	dda	152 तस्य	tmya	180 द्य	dya	208 <b>प</b>	pa
125 ह	фhа	153 त्य	tya	ाडा दू	dra	209 L	p
126 द्य	dhya	154 =	tra	182 夏	drya	·210 🕱	pta
<sup>127</sup> 夏	<b>ḍ</b> hra	155 च्य	trya	183 富	dva	211 🕱	pna
128 सा	ņa	156 त्व	tva	184 द्वा	dvya	212 प्	ppa
129 <b>U</b>	ņ	157 त्स	tsa	185 ध	dha	213 <b>प</b>	pma
130 ग्ट	ņţa	158 त्स्त	tsna	186 %	dh	214 प्य	pya
131 स्ट	ņţha	159 त्स्य	tsya	187	dhna	215 <b>प्र</b>	pra
132 गुड	ņḍa	160 घ	tha	188 ध्रम	dhma	216 झ	plæ
	1	-		11			

$\alpha$	TO	TYLE	RIT

	1	Di .		n .		10	
217 द्व	pva	245 य	ya	273 契	çra	301 <b>स्म</b>	sma
218 प्स	psa	246 Z	. <b>y</b>	274 裏	çla	302 स्य	smya
219 <b>Th</b>	pha	247 च	y	275 प्र	çva	303 स्य	sya
, 220 ৰ	ba	248 य्य	yya	276 221	çça	<sup>304</sup> ਸ਼	sra
221 6	b	249 <b>₹</b>	ra	277 घ	sha	<sup>305</sup> स्व	sva
222 स्	bgha	250 <b>र</b>	ru	278 🗷	sh	306 <b>स्स</b>	ssa
্223 ব্ৰ	bja	251 <b>E</b>	rû	279 <b>E</b>	shṭa	307 ह	ha
224 😴	bda	<sup>252</sup> 평	la.	280 स्य	shṭya	308 ਵ	h
225 🕹	bdha -	253 ₹	1	2S1 <b>E</b>	shṭra	309 ह	hŗi 🔧
226 ब्र	bba	<sup>254</sup> ल्क	lka	2S2 <b>प्ट्र</b> य	shṭrya	310 ह्य	hņa
227 <b>अ</b>	bbha	255 ल्प	lpa	2S3 <b>E</b> I	shṭrya	311 हू	hna
228 ब्र	bra	256 ल्म	lma	284	shṭva	312 <b>स</b>	hma
229 <b>भ</b>	bha	257 ल्य	lya	285	shtha	313 <b>ह्य</b>	hya
230 🚣	bh	258 裏	lla	286 च्या	shṇa	314 हू	hra
231 भ्य	bhya	259 ल्व	lva	287	shpa	<sup>315</sup>	hla
232	bhra	260 व	va	288 <b>प्र</b>	shpra	316 ह	hva
233 भ्व	bhva	261 3	V	289 <b>प</b>	shma	317 <b>क</b>	ł
234 <b>म</b>	ma	262 <b>q</b>	v	290 घ	shya	318 व्ह	Iha
235 🗜	m	263 व्य	vya	291 स	sa	319 <b>9</b>	4
236 폭	mna	264 व	vra	292 <b>天</b>	s	320 <b>२</b>	2
237 स्प	mpa	265 ब्र	vva	<sup>293</sup> 天 <b>香</b>	ska	321 3	3
238 平耳	mpra	266 श	ça	294 स्व	skha	322 8	4
239 म्ब	mba	267 🕶	ça	295 स्त	sta	323 <b>q</b>	5
240 <b>1</b>	mbha	26S <b>T</b>	ç	<sup>296</sup> स्त	stra 🌯	324 &	6
241 स्य	mya	269 😎	ç	297 स्थ	stha	325 9	7
242 <b>म्र</b>	mra	270 緊	çća	298 有	sna	326 <b>t</b>	8
243 स्न	mla	271 翌1	çéya	299 <b>स्प</b>	spa	327 <b>Q</b>	9
244 स्स	msa	272 署	çna	300 <b>स्फ</b>	spha	328 0	0
					-		

### **TAMIL**

The Tamil language was earlier cultivated than the other members of the Drâvidian family. It includes two dialects the (ancient) Shen-Tamil and the (modern) Kodun-Tamil. Tamil is spoken throughout the plain of the Carnatic, below the ghauts from Pulicat to cape Comorin, to the neighbourhood of Trivandrum; also in the northern and western part of Ceylon where in ancient times Tamilians established their settlements. This language has 12 yowels and 18 consonants. It is read from left to right.

#### SHORT VOWELS. as in America » » fill » » full 61 » » self » » long THE CORRESPONDING LONG VOWELS. in ah /·T· " feel ù ഉബ 9 foo **o**J ê » they sole ஓ DIPHTHONGS. eV in eye ஓள OU " foul CONSONANTS. k $\dot{\mathbf{h}}$ 'n ng in long į S as gu in french rèque like t d of Sanscrit cerebrals ன் like n of Sanscrit cerebral த் ந்ப் n in no p ய் m ற் rolled, partly like a cerebral, partly like a dental ன் as in on LIQUIDS. Ш as in yes ıί » » round ல் o » lap வ் ள hard, it is of cerebral character ழ் intermediate between r and l.

The consonants have been divided into rough, soft and intermediate sounds. The first class includes the tenues  $(\dot{x}, \dot{x}, \dot{L}, \dot{x}, \dot{u}, \dot{p})$ . The second class contains the corresponding Nasals. The third class contains the Liquids. A dot placed at the top of a consonant indicates the absence of a vowel, but is omitted in native MSS.

The following rules are to be noticed in the pronunciation.

- a) Short a, before the soft letters  $\dot{\vec{m}}$ ,  $\dot{\vec{m}}$ , the intermediate letters  $\dot{\vec{r}}$ ,  $\dot{\vec{m}}$ ,  $\dot{\vec{m}}$ ,  $\dot{\vec{\omega}}$ , and at the end of polysyllabic words, sounds like e in men.
- b) Combined with a preceding  $\dot{\pi}$  it receives the same sound.
- c) The vowels e and ê as initials are pronounced as if y were placed before them.
- d) The vowels i (i) and e (c) before linguals  $(\dot{\mathcal{L}})$ ,  $\iff$  and  $\iff$  p and  $\iff$  are respectively articulated somewhat deeper than the French u and eu.
- e) The consonants  $\dot{\vec{x}}$ ,  $\dot{\vec{x}}$ ,  $\dot{\vec{\nu}}$  are only hardened as initial letters, or when doubled in the middle of a word. The same is the case with  $\dot{\vec{\omega}}$  which does not occur as an initial in pure Tamil words.
- f) When  $\vec{\sigma}$ ,  $\vec{L}$ ,  $\vec{\phi}$ ,  $\vec{U}$  occur as medials of a word,  $\vec{\sigma}$  sounds like ch,  $\vec{U}$  like b,  $\vec{\phi}$  like th, and  $\vec{L}$  like the Sanscrit cerebral d.
- g)  $\dot{\sigma}$  is always sharply hissed like ss. When the nasal  $\odot$  precedes, it coalesces with it and sounds like ng (in angel). When doubled after  $\dot{\omega}$ , or  $\dot{p}$ , it sounds like ch (in church).
- h) e and y at the end of a syllable have an intermediate sound of i (in vine) and ai (in vain).
- i) Donble  $\dot{p}$  sounds like tt. After the corresponding nasal  $\dot{\varpi}$ , it may be pronounced like d.

The Tamil Alphabet being syllabic, a word is divisible in any part, so long as the consonant remains united with its vowel. In punctuation the full stop alone is employed.

The vowels, in their separate forms, are only used as initials. The following table shows their mode of coalition whith the consonants. The short a, as in Sanscrit, is not expressed before a consonant.

_						<u> </u>						
	a	â	i	î	u	û	e	ė	ey	О	ô	au
	A	A,	2	<b>F</b>	2	<u>ഉണ</u>	எ	ଗ	22	9	ஓ	ஒள
k	க	கா	க	F	கு	Jn	கெ	கே	கை	கொ	கோ	கௌ
– 'n	ங											
s	Æ	சா	ச	F	Fr	<b>E</b>	செ	சே	சை	சொ	சோ	சௌ
ñ	ஞ	ஞா	ஞி	சூ	னு	ஞ	ஞ	ஞ	ஞை	ெஞா	ஞோ	ஞௌ
ţ	<u>_</u>	டா	19	10	G	$\mathcal{G}$	டை	டே	டை	டொ	டோ	டௌ
ņ	ண	<u></u>	ணி	ணி	<u>ண</u> ்	ண	ணெ	ිනා	2000	ഞ	ලා	ணைள
t	த	தா	身	F	து	தூ	தெ	தே	தை	தொ	தோ	தௌ
ń	ந	நா	நி	நீ	நு	நூ	தெ	நே	நை	நொ	நோ	நௌ
p	Li	LJII.	ß	பீ	Ц	H	பெ	பே	பை	பொ	போ	பௌ
m	ம	மா	மி	மீ	மு	மு	மெ	மே	மை	மொ	மோ	மௌ
$ \mathbf{y} $	ய	шп	யி	ıß	щ	Щ	யெ	யே	யை	யொ	யோ	யௌ
r	ற	_n	пP	rf°	ரு	ரூ	செ	СI	<i>வை</i>	ரொ	போ	ரௌ
l	໙ໍ	லா	ରୀ	ล์	அ		லெ	லே	%	லொ	லோ	வெள
v	வ	வா	வி	മു	வு	ஆ	வெ	வே	வை	வொ	வோ	வெள
j	Ŀ	ழா	ழி	ழி	ழ	மு	தெ	மூ	ழை	்	மூர	ழௌ
1	ள	ளா	ଗୀ	ଶଂ	ளு	ளூ	ளெ	ளே	% ଅବ	ளொ	ளோ	ளெள
ŗ	ற	<b>T</b>	றி	றீ	று	றூ	றெ	றே	றை	ெர	Cor.	றௌ
n	ன	<u></u>	னி	னீ	<b>அ</b>	னூ	னெ	னே	Sea .	ෙ	ලො	னௌ

#### ADDITIONAL LETTERS AND CONTRACTIONS.

ஷ்	ஷ	ஷி	ஷீ	$\hat{m{w}}$	മ	00	$\nabla_{\mathcal{O}_{\mathcal{S}_{\mathcal{L}}}}$	௵	உ
sh	shă	shĭ	shî	s	să	ch	Month	Year	Om a sacred word

#### NUMERALS.

Examples of compound numbers,  $\omega = 11$ ,  $\omega = 12$  etc.

	ZI	END		
FORM	SOUND	FORM	SOUND	
N	a	5	z	
w	â	₩	ñ	
د	i	100	t	
ہ	î	8	ţ	
,	u	હ	th	
3	ù	9	d	
۶	<b>e</b> (e)	9	dh	
ξ	è	1	n	
נע	ê	ی	P	-
P	o	9	f	
Ŷ	ô	رد	b	
μο	ào	ę	m	
K	ลท์	2	y initial	
9	k	دد	y medial	
Œ	kh	2	r	
w	P	4	v initial	

## BURMESE

VOWELS									
FORM	SOUND	FORM	SOUND						
39	a	0	è						
39.5	â	39	ey						
ল্	ie	ထြော	ăŭ						
නු	ee	(Q)	au						
S	u o	39	ăņ						
00 00 OG	ù ōō	3908	âḥ						
	CONSO	NANTS							
က	k	3	d						
9	kh	o	dh						
0	g	နာ	n						
ಶು	gh	O	P						
С	ng& gn	9	ph						
0	ch	0	b						
20	chh	ဘ	bh						
9	j	6	m						
ସ	jh	ယ	y						
ဥ၁	ñ	9	r						
Š	ţ	ရ လ	1						
9 <b>3</b> 2 8 8 2 2	ţh	0	w						
ý	ġ	၀ သ ဟ	s						
υ	dh	ဟ	h						
വാ	ņ	3	ł						
တ	t	39	aņ						
$\infty$	th	33							

PUNCTUATION.

ev

m

ev

9

کد

6

ول ول  $_{
m gh}$ 

ń

sh

ć (ch)

v medial

sh

h

CANARESE (CARNÂTACA).

This language, belonging to the Dravidian family, is spoken throughout the plateau of Mysore, in some of the western districts of the Nizam territory, and in the district of Canara on the Malabar coast.

		maiabar coast.		
e a	S ê	た nga	න් ta	ಯ ya
e â	😂 ai	ಕ cha	ර tha	ර ra
₽ i (ee)	ఓ ం	ち chha	ස් da	<b>ð</b> la
í (ēē)	w ô	23 ja	ధ dha	න va
(5 u (00)	ق au	ψυ jha	ゃ na	් <b>ජ</b> sa
est û (ōō)	_ ij	ন্দ ña	数 pa	∝ sha
<b>₩</b> i	• h	ඪ t'a	భ pha	だ za
<b>" r</b> '	₹ ka	ර t'ha	ນ ba	ि ha
r l	2) kha	な d'a	ಭ bha	<b>8</b> la
ar l'	<b>⋌</b> ga	යූ d'ha	ණ ma	es sha
ఎ <sup>e</sup>	ρω gha	m n'a		
		LIGATURES		
⇒ ki	me) ñu	ವಾ dâ	න ma	る。 vâ
₹0 ku	ದೆ d'e	යි di	మ <sub>pù -</sub>	र्य vu
<del>Zo</del> o kô	ಡ್ಡೆ d'o	. සි° dî	ৰ্ফু pra	সূত vû
<u>ಕ್ಷ</u> ksha	වී ti	ඨ de	AN bhu	್ರ್ ಶ <sup>ೀ</sup> vr
~ ga	ar tî	💩 dri	<u>র্</u> জ্জ mma	على مار
gî	ණ tu	g n	o râ	- Zo vai
gu gu	ਰੈ te	ත nâ	ට් re	్రై yyu
. Rege	ි tai	ni e	ල lâ	shâ
, Ro gê	🗦 🧸 ttu	26 ni	ಲ್ lû	& sht'a
Z gai	<u> </u>	≾ nu	<b>3</b> 0 1ô	₽n. hô
न्त्र ñâ	₫ tra	දී. ne	S va	
2,000				

GUJERATI OR GUZERATTEE.

This Alphabet is derived from the Sanscrit (Devanagari) characters, from which it principally differs in the omission of the connecting lines. Gujerati is spoken in the province of Gujerat (Guzerat), especially by the Parsee inhabitants, and is considered to be the mercantile language of Western India. In modern times various Gujerati publications have appeared in Bombay.

	ern times various Gu	ijerati publications ha	eve appeared in Bon	
<b>ઢ</b> ધા  ે	આ) ે	વ cha ઇ chha	រ ta ឧ tha	m bha
<b>کار</b> از (ee)	રૂપા ⊃)	a ja	E da	<b>H</b> ma
	ani) ow	<b>ા</b> jha	٤ dha	4 va
(00) (E) (00)	34i <u>ે</u> )	Z t'a	-1 na	(A la
	<b>%</b> ka	8 t'ha	<b>ų</b> pa	2. ra 21. sa
A i e (ai)	U kha	<b>ડ</b> d'a ■	<b>%</b> pha	Al ça
21 (ai)	ol ga	6 d'ha	4 ba	& ha
	ا gha	u n'a		- ·
		LIGATURES		
<b>X</b> ki	en en ji	un'i	<b>1</b> nû	g vu
<b>%</b> ku	g ju	₩ n'n	U pi	9 vû
火 kû	気 jû 虱 jhi	₩ n'û	<b>y</b> թս	A li
M khi	जु jhn	M ti	<b>y</b> pû	<b>は</b> In
y khn	ज्री jhû	J tu	<b>M</b> phi	J. lû
भू khû	Za t'i	A tû	<b>3</b> phu	<b>A</b> ri
on gi	<b>3</b> t'u	en thi	& phû	<b>3</b> ru
ગુ <sub>ુ gn</sub>	ξ t'û	યુ thu	of bi	₹ rû
عل gû و ghi	<b>&amp;</b> t'û t'hi	4 thû	y bu	<b>સ્(ા</b> si
	3 t'hu	di di	Of bû	<b>3</b> su
	ð t'hû	<b>g</b> du	n bhi	स् sû
ध्रू ghû ची chi	₹ t'hû d'i	4 dû	<b>3</b> bhu	al ci
g chu	પુ d'u	بر dû ا dhi	nd phụ	શુ હું
र्जु chû	₹ d'û	g dhu	ni mi	<b>R</b> Į çû
	& d'hi	a dhû	3 mu	& hi
& chhu	<b>g</b> d'hu	a ni	<b>y</b> mû	5 hu
chhi g chhu g chhù	ير d'hû	3 nu	4 vi	y hu K hû

## **TELUGU**

one of the branches of the Dravidian stock, is spoken along the eastern coast of India from the neighbourhood of Pulicat to Chicacole. Inland it extends to the eastern boundary of the Maratha Country and Mysore, including within its range the ceded districts and Kurnool, the greater part of the territories of the Nizam, the Hyderabad Country and a portion of the Nagpore Country. This language is spoken by about 14 millions.

	18 500	one of wood if min								
e a	₽ ê	간 nga	ණ ta	· 6 ra						
e â	ک ĕ	చ cha	🍎 tha	ව la						
₹ i (ee)	ఓ ం	ಭ chha	ස් da	వ va						
ಕ್ î (ēē)	್	뫊 ja	な dha	る sa						
읪 u (00)	Tuo	τω jha	さ na(soft)	≼ sha						
<b>ట</b> ి û (ōō)	° 'n	X nya	နှံ pa	₹ sa						
w i	<b>:</b> h . '	ළා t'a	နှ် pha	& ha						
€MT° i'	ち ka	- & 't'ha	ည ba	g ła						
L i	P kha	な d'a	ಭ bha							
Fi'	🗙 ga	ූ d'ha	మ ma	⇔ sha ≀ Pause						
<b>J</b> e	တ်ပ gha	ල n'a (hard)	a ya	( rause						
LIGATURES										
5° kâ	τίνο jhâ	మా mâ	❷ ti	_ ని l, li						
₩ ku	ار ئىت jhî	& mi	<b>5</b> tî	<b>છ</b> lu						
‰'kû		<b>ဿ</b> mu	ತು tu	وره 10						
<b>S</b> ko	‱jhû	ಮ me	ම te	g lla						
₩ ksha	Qr ñâ	<u>ಷ್</u> mo	ವ್ತು ttu	ဗ္ဗ lli						
7 ge	2℃ nu	mmu mmu	ு ஞ tra	ವ್ vâ						
お gê	ې nâ	သာ yâ	್ರಾ dâ	ৰ্য vu						
A gau	% ni	య yi	ක dî	ত ve						
္တ္ ghâ	8 nî	gy ye	ක di	නු vva						
$\widetilde{\omega}$ ghu	≈ nu	$Qm \lambda_0$	ක de	ছ্র <sup>vvu</sup>						
_	3 ne	ਨਾ râ	ස do							
om. ghņ	Z nna	ð ri	₩ ddu	a si						
旡 ngâ	& po	25 ñû	安 ddhâ	े के shâ						
<b>光</b> v ngu	sy ppu	Zo m हि t'e	မှာ dhâ	క్టు sht'a						
-a chi	ත bâ	ළ ස re <b>ස</b> d'u		お sâ						
చు <sup>chu</sup>	ಋ bu	1	වි rî ජා ru	zo ssâ						
3 che	భూ bhû	کن d'hu	W ru							

## BENGALI.

This Alphabet is based on the Devanagari character. In some instances the circular shape has been altered into an angular form, in others the form has been entirely changed. The Bengali language is less mixed than the neighbouring idioms.

VOWELS.		CONSONANTS.						
আ a	本 ka *** kha ** ga ** gha ** nga ** tsha ** tshha ** で、ja ** Jha	が fia	ধ dha ন na প pa ফ pha ব ba ভ bha ম ma য ya র ra	ল la ব va শ sha স sa স sḥa স ha স khya				

#### OBSERVATIONS.

inherent in all consonants.

- (birám) subjoined to a consonant causes the a to drop. A consonant moreover loses its a by being attached to the following consonant.
- J denotes y affixed to a consonant.
- denotes r. It is placed at the top of the letter, and sounded before it.
- The vowel-sound of the short a is & r stands under a consonant and is pronounced after it.
  - over a consonant, represents its nasal sound.
  - denotes the word Ganesh.
  - denotes the name of God.

serves as a stop at the end of a sentence.

## THE VOWELS sounded after the consounded after the con-sonants take their po-sition before, after above and below their letters. They receive in such cases the fol-lowing forms.

Ta follows its cons.

i precedes » »

Ífollows » »

🔊 u is subjoined

د ú» < ri » ≤ rí »

CT e precedes

take the cons. C 10 in the middle.

au take the cons. in the middle. ang follows the cons.

8 ah follows the cons.

## BÚGÍS

is supposed to be the most ancient of the languages spoken in the island of Celebes. The same Alphabet is used in the Macassar language.

~ a	≠ ba	ج ra	∼ la
-/ ka	- ma	ට cha	→ wa
₹ kha	» pha	P ja	= sa
→ ga	∼ ta	≈ a	⇒ ha
🗻 nga	• da	cc chha	🕶 ya
~ pa	- na	= ra	

Every consonant has an inherent vowel, with which it forms a separate syllable,

The following vowels vary in position:

- l' e before a letter.
- J i over a letter.
- 1 o after a letter,
- . u under a letter.
- " ung at the top of a letter.

## **JAVANESE**

ORDI	NARY LET	TERS	INITIAL LETTERS					
Ordin. Form	Pasangans	Sound	Ordin. Form	Pasangans	Sound			
· un	·	hå	• • • • • • • • • • • • • • • • • • • •		Nå			
· (K) · ·	· · · · ·	. nå		,	Tyå.			
. 65)		tyå	•••••••••••••••••••••••••••••••••••••••	######################################	Kå			
· . 70	<u>.</u>	rå	क्ष	  - G	. Tå			
· • • • • • • • • • • • • • • • • • • •	ந்	kå	णीं or भी		Så			
· · ແລ · ·		då	• • (C3) • • •		På			
· · (GN) · ·,		tå	· 15 · ·		Nyå			
(1)	٠٠ ڪ	så	· · • • • • • • • • • • • • • • • • • •		Gå			
• (C) • •		wå	· 45 · ·		Bå			
• (0) • •	· · ••••	lå	UNCO	NNECTED V	OWELS.			
· U · ·	~1	på	G.S. (	idu id	5 02			
· (L)] · ·	· · · · · · ·	då	a	i u	e 0			
(K)	· · · · · ·	dyå	ADDIT	IONAL CONS	ONANTS			
· (UU) · ·	iuui n	yå	The following for	ur letters, with the	sign & (Sastrosworo)			
• (CAN) • • •	ا . ال	nyå	there are no c	onsonants in the J fully express thes	from the Arabic, as avanese Alphabet.			
· (E) · · ·	U	må		stands for the Ar				
	ำกก	gå bå	Ö få	)) )) )) ))	ی • fe			
ં ણ	ca	tå	i zå	» » »	» ; ze			
· 🖽 · · .	ω	ngå	์ เก็ก ghâ	)) )) ))	ر ghain غ			
	(II)	··········						
· · · · · · · · · · · · · · · · · · ·	۰۰-کا۰	Plpha-tyere', rĕ		NUMERALS				
<u> </u>		Plpha-tyere', rě $Nglpha$ -letet, lě	m B D	169 4 1	u as an o			
			4 2 3		7 8 9 0			

#### VOWELS AND DIACRITICAL SIGNS,

called Sandangan.

Form	Name	Sound and power
::::::	Pĕpĕt	ĕ ·
<u> </u>	Ulú or Wulu	i
٠٠ ٫ ٠٠	Suku	u -
	Taling	e
- 10 2 .	Taling-Tarung	о . ,
٠٠٠ ال	Paten or Pánkon	(deprives a consonant of its vowel)
	Ságnyan or Wîgnyan	h (at the end of a syllable)
::;:::	Tyĕty'a	ng (at the end of a syllable)
:::::	Layar	l' (at the end of a syllable)
. ( or ( .	Tyåkrå	l' (between a consonant and a succeeding letter)
٠٠٤ ٠٠	Kěrět	re (after a consonant)
: d	Pĭnkal	y (after a consonant)

#### PODOS OR PADAS.

Under this designation the Javanese writing contains the following signs:



Podo luhur. With this sign superiors begin their letters to inferiors.



Podo madyo is used at the commencement of letters by persons of equal rank.



Podo and ap, with this superscription an inferior addresses a superior.



Podo-bab stands at the beginning of a new paragraph.



Podo-lingso, the usual stop at the end of a sentence or a detached word. In poetry it marks the end of verses, which are written consecutively like prose. It is doubled at the end of a section.



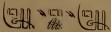


© Ulu munta. When the vowel of a final syllable is an ulu, this character takes a Tyety'a in the centre.

\* Podo andegging lyelatu or dirgo murarus occasionally replaces the Podo-lingso; mostly it accompanies numerals, and isolates them from the adjoining words.

- Suku mendut. When the vowel of the last syllable is a Suku it takes this form.
- Dirgo mure is the name of the sign placed over the Taling or Taling-Tarung, when this vowel occurs in the final syllable.
- Podo watyan anglegenno. Under this name the Tarung is employed as a sign of separation.

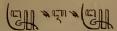
Piselep ingstembarg gede, serves to divide poetry.



Purwo-podo stands at the beginning of poems.



Madyo-podo, at the beginning of a song following another, when the melody and the measure are changed.



Wasono-podo at the end of

#### LIGATURES.

The following ligatures consist of the (Vowel-) sings Suku, Tyokro, Keret and Pinkal combined with the ordinary characters and Pansangans. The diacritical marks are also added.

- The small pasangan Wo is placed below a letter standing in the third row.
- ${\cal F}$   ${\cal F}$  These small diacritical marks are placed under auxiliary letters which stand in the third row.
- The short Layar is employed when there is no room for the large Layar.
- This mark is placed under the letters Wo and Ngo to form the vowels u and o.

#### OBSERVATIONS.

The Javanese language has 20 letters which are called Aksoro, Sastro or Tiarakan. They are written from left to right, without being joined together. By the many auxiliary letters, rowels and diacritical signs, the numbers of characters is considerably increased. The Pasangans, employed in the Alphabet, are in close connexion with the sign Paten, which in fact they replace. When a consonant occurs in the middle of a word, and is to be deprived of its vowel, a Paten must be employed. To

obviate a disjunction arising from the use of this sign, the Paten is omitted, but the letter, which follows the mute consonant, is changed in form or in position or in both. The substituting sign is then called Pasangan. The Pasangans being mostly placed under the common letters, while some vowels and diacritical signs figure above the letters, the Javanese writing runs within three rows. The position of a character in one row or an other is indicated in this Alphabet by the addition of dots.

## · TIBETAN

- 31			
Value	Form	Value _	VOWELS.
k	ぉ	m	The Tibetan language is read from left to right and has five vowels. The vowel a is inherent in the several consonants. When confusion is apprehended from the absence
kh	\$	ts	of a distinct a after the prefixes
g.	8tv	tsh	the sign <b>Q</b> is inserted to denote <b>a</b> . The remaining yowels are written and named as follows,
ng	)II	s	າ gigu, i ✓ zhabs-kyu u
ch	ભ	W	drengbu e
chh	ৰ	j (French)	The gigu drengbu and naro are placed above their consonants, the zhabs-kyu below them. When double, the zhabs-kyu is pronounced uu or ow; double drengbu ay or
j	77	Z	ie; double naro oo or ou. Gigu is often formed thus $\rho$
nya	Q	ha	is placed below the letters. <b>Ph</b> is changed by it into <b>f</b> ; <b>ss</b> into <b>x</b> . Under the other letters it represents the vowel <b>a</b> ; according to others it denotes <b>u</b> .
t	W	У	o placed over th, a and h denotes with the first of these letters mee with the other two m. According to others it signifies ang and ong.
th	I	r	ACCENTS.
d	વ	ı	guttural sign palatal » nasal »
n	29	sh	7 sign of the singular number.
p	<b>ষ</b>	s	PUNCTUATION.  is an introductory sign. Besides this figure other varieties are in use.
ph	5	h ·	Comma. Two such signs are equal to a full stop. Four such strokes, with
b	(Z)	a	between them, denote "the end".  is inserted between the syllables.  o o mark the stress of a word.
	sh g g g h gh h l	The second of th	ts

LIGATURES.

# 日日日朝祖日祖新期田田田田田

	Value	an d	sh	÷	q	t	р	-	·m	ch	·Ĺ	y	k	as	kh guttural	r
		final	*	Þ		:		17	₽			:	:	1	:	(¢
	Form	medial	<b>\$</b>	10	10	lo	ં નજ	<b>′</b> r⊧	LF	ħ	h	V	C	·C	ئ،	K
	FC	initial	<b>\$</b>	¢	ψ,	प्र	爿	[pt	ţ.	h	ν	V	C	,C	بخ	:
		unconnected	1	\$	म	र्न	भं	Jul 1	ĨĮ.	ħ	7	7	3	ે,ર્દ	`.E	L
SHU	Name	O THE STATE OF THE	Sha	Ta	Da	Tc	De	La	Ma	Cha	Ja	Ya	Ke	Ge	Khe	Ra
MANTSH	Value		.e	u	 Rm19F	o o ui s	e n	ŷ	an	п	Х .	g aspirated	kh guttural	p soft	p aspirated	z
	<u> </u>	final	-	7	\ \( \lambda \)	φ P	φ	þ	<u>`</u>	7	*"			Ģ		* *
	rm	medial	Þ	(►	ν	b	٠, 5	þ	‡	<b>₽</b> )	ŧ	41	<b>*</b>	φ	ф	<
	Form	initial	1,	<b>'</b> }	¥	Þ	۲,	K	ţ	و عم	ŕ	4	36	φ	ъ	<
		unconnected	7	7	\$	ŗ	'L	P	`	<b>J</b> ,	75	17	/हर	6	<b>6</b>	7
	Vomo	Transc	A	因		0	Ω	0	An	Na	Ка	Ga	Kha	Ba	Ра	Za

	sound.	o changes the letters into gutturals.	PUNCTUATION, · equal to semi- colon.	** equal to full stop.	THE NUMERALS are composed of letters, as	1 40 100	۹۰۰۲ ح <del>ق ر</del> ۲۴۰	170-	The Mantshu char-	from the top down- wards. The lines	to right, as		ere	ڳج kherş	ĵ√ gen
	Value	bi	po	. nq	bo long	pi	po	nd	po long	ki	ku	me	re re	T.	ş ye
S	final	6	\$	· <b>B</b>	\$	94	\$	·\$	\$	`&	œ.	可	mn mit.	Ta	
LIGATURES	medial	6	\$	·\$	4	₽ \$	\$	<b>,</b> \$	\$	Ļ	Ç	华	T T	int.	[E
	initial	4	B	· <b>B</b>	\$	ν φ	8	·\$	\$	Ł	G	体	# ma	i i	ů UP
	unconnected	8	\$	·Φ	\$	96	\$	\$	\$	3	Œ	可	rt	Å gge	S gk
Volue	, winc	Į.	<b>H</b>	dz	tz	j (French)	v.	chh	jh					व्यु प्राप्त विस्तु प्राप्त	ध्रम् me
Volue	final	- 4-	***	dz dz	tz	· · · · · j (French)	χ.	chh	dį,		SONANTS.	0			òa ga
		- <del>**</del>	* · · · · · · · · · · · · · · · · · · ·		:	(French) ( French)	·				FORE CONSONANTS.	4	THONGS.	5 6	15
Form	final	+ + +	* U		:	(French)	γ · · · · · · · · · · · · · · · · · · ·				BEFORE CONSO	4 t"	DIPHTHONGS.	oi ठेन्द्र ui ठेन्द्र	٥i   عرص ٥a   عرض
	medial final	ע	v	7 7	:	· · · · · · · · · · · · · · · · · · ·		:	· · · · · · · · · · · · · · · · · · ·		NANTS	4	DIPHTHONGS.	ठ्रेत ui ठ्रु	वरदम् वंस विद्य

### MONGOLIAN

Initial

	CONSC	ONANTS	
Initial	Medial	Final	Value
- <u>r</u>	Ţ	1 ~	n
6	6	7	b
21.	₩.		ch Scotch
<i>3</i> .	IJ		<b>gh</b> guttural
C	C	7 1	k
Ç #	C		g
<u>_</u>	F	U	m
$\supset$	7	7	1
7	7	<b>₽</b>	r
4	2	4	t
4	2	D &	d
2	2		У
2	r		z, dz
ᠴ	=	=	ts or ch
٨	<b>^</b>	# 1	s
<b>\</b> "	<b>۸</b> "		sh
7	7		w

## PUNCTUATION.

VOWELS

Final

Value

e

0

u

ö

ü

Ξ.

Medial

- This sign divides sentences.
- · is used at the end of a period.

Mongolian books are not numbered by the page but by the folio. It is usual to head each folio by or some other mark like this.

#### OBSERVATIONS.

Like the Mantshu the Mongolian characters are written in perpendicular lines from left to right. The Alphabet consists of seven vowels, together with diphthongs derived from them, and of seventeen consonants which vary in form according to their position at the beginning, the middle, and the end of a word; or according to the

effect exercised upon them by certain orthographical rules. — The consonants are not regarded as isolated sounds, but are always joined to vowels with which they form simple syllables. An exception is made to this rule when a consonant occurs as the final of a syllable or a word. But even such final consonants may be attended by a vowel. A variation of the Mongolian characters is known under the name of Galik.

## **ARMENIAN**

Form	Name	Value	Num power	Form	Name	Value	Num power.
E "	Jpe	a	1	Tr a	mien	m	200
P #	pien	p	2	8 1	he or ye	h or y (in	300
9 4	kim	k ck	3	՝ Մ	noo	n	400
P 7	tah	t (soft)	4	7.2	shah	sh	500
<b>Ե</b> ₽	yetch	y (cons.)	5	<b>∏</b> ″	wo	WO(in word) orO(in move)	600
O, Z	zah	z	6	ع 2	tchah	tch	700
1; 5	è	e (in met)	7	9 4	bé	b	800
R E	yet	e (in paper)	8	.9. 2	tché	ch (soft	900
ρ. <i>[</i> -	twoh	t (hard)	9	[] n	rah	r (hard)	1000
∂ +	zhe	j (French)	10	IJ "	sé	s	2000
1 t	inni	i (in ill)	20	4, 4	viev	v	3000
I, L	lune	1	30	8 "	dune	d	4000
]υ <i>[</i> υ	khe	Ch(German)	40	PP	ré	l' (soft)	5000
° 6	dzah	Z (Italian)	50	8 9	tzvoh	tZ (hard)	6000
h 4	ghien	g (hard)	60	þ	une	ll (in due)	7000
<u>:</u> 5	kwoh	h	70	Фф	pure	p	8000
$\mathbf{Q}$	tzah	tz (soft)	80	R 4	ké	k	9000
9, 2	ghahd	γ(Romaic)	90	() •	0	0	10000
٧ ۾	jé	j	100	\$ \$	pha	f	20000

#### LIGATURES.

Si hn	ls 🛍 ls	<b>₫</b> 5 me	<i>J</i> p mi	Æ mn
L yev	Te lu	ժՈլ mg	<i>JI</i> r mye	<b>⊉</b> vn

#### ACCENTS AND PUNCTUATIONS.

/	a			4	^	
	a	v.	ш	u	C	

grave

° circumflex

~ rough breathing

> soft breathing

'apostrophe

, comma

: colon or semicolon

. full stop

hyphen

sign of length

sign of brevity and abbreviation

sign of abbreviation, it also converts a letter into a numeral.

## GEORGIAN.

The Georgian language is written in two Alphabets. The ancient character, used in the Bible and ecclesiastical works, is called  $Kh\bar{u}ts\bar{u}ri$  (i.e. sacerdotal). The character  $Mkhedr\bar{u}li$  (or rather  $Mkhedr\bar{u}li$  khėli i.e. Soldier's hand) is used in ordinary writing and printing.

	KHŪ	rsūri				MKHE	DRŪ	J <b>LI</b>	
Form	Value .	Form	Value	Form	Name	Value	Form	Name	Value
ţ n;	a	Ь1	s	5	an	a	וני	un	00
ч, у	b	Ru	t	ъ	ban	ь	ĵ	un	w
T y	g	Օւ պ	00	8	gan	g	3	vĕ	vĕ
ठप्र	d	चग	v	৫	don	d	જ	phar	ph
Чη	e	Pη	p'h	J	en	е	1	khan	kh
Fry	w	中华	k	3	win	v	8	ghan	gh (غ Arab.)
ЪЪ	z	Ωn	gh (Arab.)	િક	zen	z	ข	qar	q (قArab.)
Бfi	h, ě (short)	9 7	q	હ	he	e	9	shin	sh
(F m	th	9 y	sh	တ	than	ţh	В	chin	ch
ไร	i	Ph	ch	ဂ	in	i	13	tzan	tz .
հ <i>ի</i>	k'	Grp	ts	3	kan	k	9	dzil	dz
т <sub>Б тт</sub>	1	कि मा	ds	600	las	1	8	thzil	thz
મ ર	m	Rm	thz	9	man	m	र्	jar	j
Кfi	n ·	Eff	kh	6	nar	n -	b	khan	kh (rough)
5.0		-	khh	Q.	ie	i (short)	3	khhar	khh (very rough)
O. 111	i (short)	Py		ന	on	0	<i>3</i> &	jan	j
ับาเ	0	A X	j	3	par	p	ccc.	hae	h
	р	т <sub>Б</sub> *ш	h (mute)	ป	zhan	j (French)	8	hoe	hoi
H H	j (French)	कि हैं।	ho	હ	rae	r	ф	fa	f
<b>Ժ</b> դ	r	5 <sub>5</sub>	eh	b	san	s	3	short e	,
				8	tar	t			

#### PUNCTUATION.

- Hyphen

: Full stop

: End of a Period

. Semicolon

, Comma.

### GREEK

TD .	N	57.1
Form	Name	Value
Αα	Alpha	a
Ββ	Beta	b
Γγ	Gamma	g
Δδ	Delta	d
Εε	Epsilon	e short
Zζ	Zeta	Z
Ηη	Eta	e rong
Θβθ	Theta	th
1 .	Iota	i
К×	Карра	k
1 X	Lambda	1
Μμ	My	m
Ny	Ny	n
Ξξ	Xi	X
0 0	Omikron	() = 0 t
Ππ	Pi	P
Ρ ρ.	Rho	r
Σσς	Sigma	S
Ττ	Tau	t
γυ	Ypsilon	u
Φφ	Phi	f ph
Χχ	Chi	ch
$\Psi$ $\psi$	Psi	ps
$\Omega$ $\overline{\omega}$	Oměga	O long

#### OBSERVATIONS.

- $\gamma$  before  $\gamma$  and the other palatals  $(x, \chi, \xi)$  is pronounced like n. as  $\xi \gamma \gamma \psi \zeta$  (eng-gns).
- t is a mere vowel and never represents the consonantal sound of y, as Ἰωνία (I-onia). In foreign words the deficient consonant was replaced by t, as Ιούλτος (Julius).
- $\sigma$  is an initial and medial s. The final is marked by the sign of  $\varsigma$ . The latter is, in some modern editions, used at the end of medial syllables.
- τ before t, followed by a vowel, retains its proper sound of ti, and is not pronounced like shi, as Γαλατια (Ga-la-ti-a).

# Accents and Punctuation SPIRITS OR BREATHINGS.

Every Greek word, commencing with a vowel, has over this initial either

- (') spiritus lenis, the soft breathing.
- or (') spiritus asper, the rough breathing.

The former is aspirated before a vowel and equal to our h. The spiritus lenis is placed over an unaspirated initial yowel.

When a word commences with a diphthong  $(\alpha t, \varepsilon t, o t, \upsilon t, \alpha \upsilon, \varepsilon \upsilon, \eta \upsilon, o \upsilon, \omega \upsilon)$ , the breathings as well as the accents are placed over the second vowel, as  $\alpha \tilde{\upsilon} \tau \sigma \varsigma$ ,  $\delta \tilde{\iota} \sigma \varsigma$ ,  $\varepsilon \tilde{\iota} \varkappa \dot{\omega} \upsilon$ .  $\rho$  always has the rough breathing at the beginning of a word. In the middle of a word, when this letter is doubled, the first  $\rho$  has the soft and the second the rough breathing, as  $\delta \dot{\varsigma}$ .

#### ACCENTS.

- ' acute or sharp sound.
- ' grave or heavy sound.
- circumflex or long and trailing sound.

Accents, combined with either of the breathings or with the diarresis, are marked in the following manner,

#### PUNCTUATION AND OTHER MARKS.

The point and comma are used in Greek as in English. There is no semicolon. The Colon is denoted by a dot over the line ( ${}^{\dagger}$ ). The note of interrogation is ( ${}^{\dagger}$ ). In some modern editons the note of exclamation  ${}^{\dagger}$ ) has been introduced.

The Comma is also used to distinguish two words of equal spelling. As  $\tilde{\delta}, \tau \iota$ ,  $\tau \acute{\delta}, \tau \epsilon$ , differing form the particles  $\tilde{\delta} \tau \iota$ ,  $\tau o \tau \epsilon$ . This sign is termed Diastole or Hyper-diastole.

The following signs are used in connexion with letters and syllables. The Apostrophe ('), the Diæresis (''), over a vowel separated from the sound of a preceding vowel, and the Coronis' in contracted words to denote a Crasis as τούναντίον for τὸ ἐναντίον.

Iota subscriptum is the Iota under the vowels  $\alpha$ ,  $\eta$ ,  $\omega$ , and indicates the etymology of the words. Formerly this  $\tau$  was pronounced, and had its place by the side of the vowel. This lateral Iota is still used in words spelled with capital letters, as THI  $\Sigma O\Phi IA$  (for  $\tau \tilde{\eta}$   $\sigma o \phi \iota \alpha$ ) "At  $\delta \eta_S$  ( $\tilde{\alpha} \delta \eta_S$ ).

#### NUMERALS.

The Greeks employed the letters of the alphabet to denote the momerals, but as these characters were not sufficient for this purpose, the  $\varsigma$  (  $B\alpha\bar{\iota}$ , Vau) or  $\mathcal F$  ( Digamma) was inserted after the  $\varepsilon$ , the  $\frac{1}{2}$  (  $K\delta\pi\pi\alpha$ ) after  $\pi$ , and  $\frac{\pi}{2}$  (  $\Sigma\alpha\mu\bar{\iota}$ ) after  $\omega$ . The letters employed as numerals are distinguished by a top line sloping, to the right as  $\alpha'$ 1,  $\beta'$ 2,  $\varsigma'6$ ,  $\iota'$ 10,  $\iota\alpha'$ 11,  $\iota'$ 20,  $\iota\varsigma'$ 26,  $\rho'$ 100,  $\sigma'$ 200,  $\sigma\lambda\beta'$ 232 etc. The thousands recommence with  $\alpha$ , and have a stroke below on the left, as  $_{\alpha}$   $\alpha$ 1000,  $_{\beta}\beta\alpha\lambda\beta'$ 2232.

GREEK LIGATURES AND ABBREVIATIONS.

These contractions are peculiar to old editions of Greek works. They are no longer used in modern typography.

			modern o	pographj.			
cy	αι	3	εἶναι	8	ov	51	στι
av	$\alpha \nu$	ćх	દેષ્ટ	6888	$o \mathring{v} \delta \varepsilon$	50	στο
Ŋ	$\alpha\lambda$	F	ελ	ર્ભમ	ovz	25	στο
M	αλλ	W	ελλ	क्रें	οὖτοὺ	SU	στυ
L	$\ddot{\alpha} \nu$	₹\@\ 	ἔλαττον		$\pi$	500	στω
Σπο	άπο	cv cv	ena i tov	च च्यु ठेवे.	παρὰ	συ	$\sigma v$
ટેંદ્ર	άQ	Ĵξ	εξ	मह्		σω	σω
ας	$\alpha \dot{s}$	<i>19</i> €	επειδ <i>ή</i>		πει	7	au
άυ	$\alpha \vec{v}$		έπευ	σξ C	πεο	Ca	τα
ains	αὐτοῦ	7.00		wei	περί	3	ται
airs	αὐτῷ	av .	$\dot{\epsilon}\pi i$	лlw	πην	, 7	$ au lpha \tilde{\imath}_S$
. 6	$\beta$	<i>उन्त</i> ः	$\dot{\epsilon}\pi\iota$	756	$\pi\pi$	ર્જો	ταῦτα
ſ	γ	<i>े दे</i> ।	έστι	$\pi \varsigma$	$\pi \varrho$	म्ब	τει
yα	γα	80	ευ	we9	ποο	τlw	την
2α 28	γὰο	lw	$\eta  u$	ग्री	$\pi \tau$	रे	$ au\dot{\eta} u$
N	$\gamma\gamma$	θ	$\theta$	$\pi v$	$\pi v$	ہ	$ au ilde{\eta}_{\mathcal{S}}$
F	$\gamma\gamma$	9 <del>a</del>	$\theta \alpha$	756	πω	?s	τι
<b>y</b> €	γε	9€	$\frac{\partial \varepsilon}{\partial z}$	eg,	<i>φ</i> α	r	το
×	γει	H	$\theta \epsilon \iota$	es	Qt	6	το
W	γελ	9n	$\frac{\partial \eta}{\partial t}$	<i>e9</i>	QO	გ'	τὰ
%YJ	γελλ	9,	$\frac{\partial \iota}{\partial t}$	CE	σ	**	τὸν
ŵ	γεν	90	$\frac{g_0}{g_{aa}}$	σα	σα	78	του
₩ %	γεο	90	$g_v$	Gu	σαῦτα	TS	τοῦ
yn	γη	Ĵω	$\theta\omega$	σε	σε	E	au o  ilde v
21	γί	<b>ए</b> ळ्ये	zαì	od	σει	P	au o  ilde v
₹\$	γίνεται	NO X	zαì	ση	$\sigma\eta$	3	τρο
3/1	γν	C 1	καὶ ͺ	σlw	$\sigma\eta\nu$	में	$\tau \tau$
30	γο	M	<b>κ</b> ατὰ	2	$\sigma\theta$	עד	τυ
25	70	no	κατὰ	भेर	σθαι	τω	τφ
30	γυ	E 2	εφάλαιον	2	σχ	TW	$ au \widetilde{arphi}$
$\gamma \omega$	γω	λλ	λλ	or Ti	σι	~~	τῶν
A	3	NEX.	μάτων	σκ	σ <b>χ</b> σο	75	τῶν
ÿ	$\delta \dot{\epsilon}$	Fi Fi	μέν	6	σο	S	$\tilde{v}$
286	$\delta arepsilon v$	ίζω	μὲν	as a	σπ	ч	$v\iota$
	$\delta \epsilon \dot{\xi}$	μίζ	μένος	and w		w	vv
NE			μετά	ar om op	σσ	<del>É</del>	ύπ
Na	δια	$\mu \mathcal{F}$		5	στ	نص	ύπο
21 <i>g</i> ,	διὰ	my.	μετὰ	5a	στα	XV	χαν
do	$\delta \varrho$	Colun	μῶν	25	στε	21	χı
es	ε <i>ι</i>	T G	<i>งโ</i> งา′	5र्ष	στει	25	χQ
4	81	6	og v	571	στη	4	ψι
-							

### ROMAIC OR MODERN GREEK.

The Alphabet consists of the following 24 letters, which are the same as in ancient Greek.

A α, B β,  $\Gamma$  γ,  $\Delta$  δ, E ε, Z ζ, H η,  $\Theta$   $\Im$ , I ι, K κ,  $\Lambda$  λ, M μ, N ν,  $\Xi$  ξ,  $O \circ$ ,  $\Pi \pi$ ,  $P \circ$ ,  $\Sigma \sigma$  (final  $\varsigma$ ),  $T \tau$ , Y v,  $\Phi \varphi$ ,  $X \chi$ ,  $\Phi \psi$ ,  $\Omega \omega$ .

The vowels are  $\alpha$ ,  $\epsilon$ ,  $\eta$ ,  $\iota$ , o, v and  $\omega$ .

#### PRONUNCIATION.

A a (Alpha) short or long as in papa.

- B  $\beta$  (Vita) is represented by bh or v. In sound it differs slightly from the English v, the mouth being somewhat rounded in the articulation of the Romaic letter.
- the Romaic letter.  $\gamma$  (Gamma) is an aspirate of g in go. In  $\gamma\gamma$  the first gamma becomes masal;  $a\gamma\gamma z \lambda \sigma_s$ , for instance, is pronounced  $ang \cdot ge \cdot los$ . It receives the same sound before the palatals  $z \in and \gamma$ , as  $a\gamma a\gamma x \gamma$ ,  $(a \cdot nang \cdot ki)$ . Before  $z \cdot los$  and v it is like g in ge x. To produce the sound of our g in gr v g, the Modern Greeks use |x| a as  $|x \rangle z v g z \gamma z v$ .
- A & (Delta) is aspirated as th in the.
- E ε (Epsilon) as the e in pet.
- Z ζ (Zita) like z. Ζωή (20-i).
- H & (Thita) like th in thick.
- I t (lota) like i in nuchine. When t is placed under the vowels as in τ τ φ or by the side of capital vowels (λt, Ht. Ωt) it is not sounded and only lengthens the principal vowel. This t is known as the lota subscriptum.
- k x (Kappa) like our k. It is softened after the nasal γ hence άγκλιά is pronounced auglin.
- $\Lambda \lambda (Lnmedn)$  like t in tong. Before t it has the sound of tti in William.
- which of m in whitem.

  M μ (Mi) like m. Placed before π, these two letters acquire the sound of b μπαρούτι (burooti). This combination of μπ takes the sound of b in words received from foreign languages, but in compound Romaic words, each letter retains its original pronunciation. Example εμπύρευμα (ringee-ree-ma).
- pee-ree-ma).

  N γ (Ni) is n. Placed before τ, the two letters coalesce in the sound of d, which is articulated somewhat harder than the δ. For example στιγου (diwani). γτζ have conjointly the sound of j; as ντζαμ (jami). When the letters ν and τ form part of two syllables in a compound word, they retain their natural sound of nt. For example εντιμος (en-timos). Before the vowel t the ν is articulated like ni in opinion as νιπτο (ngipto).
- $\Xi \xi (Xi)$  is X.
- O & (Omikrou) like o in dot.
- Π π (1 i) like p.
- P φ (Ro) like v in rod. If doubled, it has a sharper sound.
- $\tau$  (Sigma) like s in so. Before B, Γ, Δ, Z, Λ, M, N, P and in the proclitics (such as  $\tau \phi \phi_{\tau} \tau d z_{0}$ ) before the same consonants, the Sigma is sounded like  $z_{\tau}$  as Σμορν $\tau_{e}$  (Zańeni).
- T  $\tau$  (Taph) is t,  $\tau\zeta$  sounds sometimes like ts, but generally like ch, as  $\tau\zeta s \lambda s \tau \eta s$  (chetepis). Words with  $\tau\zeta$  are mostly of foreign origin.
- Υ ν (*Tysilon*) lik y in *Egypt*. For example τρυβλιον (triction).
- Φ φ (Phi) like f or ph.
- 7 (Khi or Chi) like the German or Scotch ch. Before the vowels a, o, u, it is more harsh than before e and i.
- Ψ ψ (Psi) like ps in gipsy.
- $\Omega$  w (Omega) is the long v.
- The following are diphthongs  $\alpha_1$ ,  $\alpha_2$ ,  $\alpha_3$ ,  $\alpha_4$ ,  $\alpha_5$ ,  $\alpha_6$ ,

of an, so,  $\eta \nu$  sounds like  $\beta$  before a vowel, or the soft and liquid letters  $\beta,~\gamma,~\delta,~\zeta,~\lambda,~\mu,~\nu,~\rho,~\dots$ or is like ee and on like oo in good.

The diæresis over the second vowel of diphthongs restores to each vowel its original sound; αι, αυ, εί, ευ are pronounced separately α-ι, α-υ &c.

#### BREATHINGS AND PUNCTUATION.

The Romaic or Modern Greek admits like the ancient language two marks over initial vowels, namely the Smooth breathing Spiritus tenis ('), which is not noticed in reading, and the Rough breathing Spiritus asper ('), which in classical Greek takes the sound of our h, but is not andible in the modern language. The o, as an initial, is invariably marked with the rough breathing. In double of the first has the smooth and the second the rough breathing.

The names of the stops are, τελεια, full stop (.), μισοστιγμή, colon ('), ὑποστιγμή οτ ὑποδιαστολή, comma (.) and σημ.ίον εφοινή εεσο sign of interrogation (;). The mark of exclamation (!) is rogation (;). rarely used.

To these signs must be added the apostrophe and the diacresis. The former (') denotes the elision of one or more vowels. E. g.  $\dot{\alpha}\pi^i$   $\dot{\alpha}\dot{\mu}\dot{\nu}\dot{\alpha}\dot{\gamma}$ ,  $\dot{\alpha}\dot{\varphi}^i$ ,  $\dot{\eta}\dot{\alpha}\dot{\gamma}^i$ , instead of  $\dot{\alpha}\pi_0$  etc. This elision of vowels occurs even before consonants as ' $\dot{\alpha}\pi^i$ '  $\dot{\tau}\dot{\delta}$  instead of  $\dot{\alpha}\dot{\pi}\dot{\delta}$   $\dot{\tau}\dot{\delta}$ .

In χᾶν (instead of χαὶ ᾶν) and χανέννες (instead of καὶ αν εναε) etc, the mark (') denotes the coalescence of vowels (χράνες) and is called coronis. This mark is often used in contractions as μούχου ψαι το χέρι.

The diæresis prevents the union of diphthongs. E. g. μποιαντζής sounds bo-y-an-jis.

Another mark of separation is the *diastole* (,), which resembles the comma, and is used to distinguish the pronoun \(\delta\), \(\tau\) and the adverb \(\tau\delta\), and the conjunction \(\delta\), and the adverb \(\tau\delta\).

#### ACCENTS.

The tone is indicated by three accents, namely the circumtlex (περιππωμένη) or long accent, the acute (γεία) or sharp accent, and the grace (ρεία) or heavy accent in final syllables. Some monosyllabic words, being unaccented, are called atoms. The circumtlex can only be placed on the nitimate and pennitimate syllable. When the vowel of a final syllable is long, the penultimate vowel cannot take the circumflex. A word is termed perisponenon, when it has the circumflex on its last syllable, or if it is a monosyllable and is marked with this accent. When the circumflex occurs over the penult, the word is properisponenon.

The Acute takes its place in the penultimate and

The Acade takes its place in the penultimate and ante-penultimate syllable. Also on the final syllable at the end of a period, or when an enclitic follows (i. e, a word like  $\mu \nu \beta$ ,  $\mu \nu i$ ,  $\mu \dot{z}$  which throws its accent on the antecedent).

When the final syllable is long, the acute can-not revert to the ante-penultimate.

When the acute occurs in a monosyllable or in a final syllable, the word is called oxytonon; the penultimate, thus accented, is called peroxytonon; and the ante-penultimate with the acute is pro-

## OLD-SLAVONIC (CYRILLIC).

Based on the most ancient MSS, and cut under the direction of the I. R. Aulic Councillor Dr. Paul Jos. Schafarik at the type-factory of Gottlieb Haase Söhne in Prague.

Form	Name	Value	Form	Name	Value
A a	Az	a	ФФ	Fert	f, ph
а А	Buky	b	Xx	Chěr	kh
В в	Vědi	v	ω ω	Ó	ó
$\Gamma$ $\Gamma$	Glagol'	g	<b>Ö</b> ö	Ot	ot
Д, д	Dobro	d	Цη	Ci	ts
€ €	Est'	e	ΥΥ	Červ'	ě
ж ж	Živěte	ž	ա ա	Ša	š
S s	Zělo	z	11) ф	Šta	št, šč
<b>Z</b> 3	Zemlja	Z	A A	Jer	_
Н н	lže	i	ы <b>Ы</b>	Jery	3
Ϊï	1	i	Ыы	Jery	y
I i	1 .	i, y	Ьь	Jerek	- 0
К к	Kako	k	t T	Jeť	ě
Λ Λ	Ljudi	1	Юю	Ju	yu
М м	Myslite	m	ta n	Ja	ya
И и	Naš	n	H€ i€	Je	ye
0 o	On	0	A A	Ęs	ę
n n	Pokoj	p	ж ж	Ąs	ą
Po	Rci (Reci)	r	НА на	Jęs	yę
C c	Slovo	s	IX R	Jąs	yą
Тт	Tverdo	t	3 3	Ksi	X
Th to	Těrv'	ť	* *	Psi	ps ·
OV oy	Uk	· u	0 0	Thita	th
8 8	Uk	u	Y v	Ižica	У

#### NUMERICAL LETTERS.

A. B. F. A. E. etc. AI. BI. FI. AI. EI. etc. KA. KB. KF. KA. KE. etc. 3 4 11 12 13 14 15 21 22 23 24 25 c = r = 90 s = 1000, E. g. s = 6396. s = s = 6

#### ABBREVIATIONS (IN SLAVONIC TITLY).

- Titla (simple).
- ♠ Glagol'-Titla.
- º Oneček.

- Dobro-Titla.
- « Slovo-Titla.
- Pajerek.

#### NOTES.

- 1) The power and pronunciation of the accented (Roman) characters are sufficiently explained in the Polish and Czechian Alphabets.

  2) The alphabetical names have been rectified and, as regards the nasals, completed according to approved ancient authorities.

  3) The characters are designed to be printed without the abbreviations, which as relios of the

- middle ages must be restricted to ecclesiastical works. Here they are solely introduced as historical forms. The "Pajerek" is a Jer or Jerek placed over a letter.

  4) As in ancient MSS, the numbers are indicated by the insertion of the letters between two dots. The "Titla" formerly used have thus become nu-

### GLAGOLITIC.

According to ancient MSS (sec. XI-XII) designed by Dr. Paul Jos. Schafarik, cut at the type-factory of Gottlieb Haase Söhne in Prague.

For	m	Name	Va	lue	Num:	For	m	Name	Va	lue	Num:
			Cyrill.	Latin	value				Cyrill,	Latin	value
ተ	ተ	Az	А	a	1	<b>3</b>	33)	Uk	oy	u	400
ш	쁘	Buky	6	b '	2	φ	$\Phi$	Fert		f nh	500
v	v	Vědi	ß	V	3	offer offer	⊕ \	rert	ф	f, ph	300
%	%	Glagol'	Г	g	4	b	b	Chěr	N	ch	600
$\vartheta$	ക	Dobro	Ţ	d	5	0	Ф	Ó	ω	ó	700
3	3	Est	€	е	6	씽	8	Šta	ц	št	800
*	85	Živěte	ж	ž	7	V	v	Ci	ų	c	900
*	3	Zělo	s	Z	8	성	성	Červ`	Y	č	1000
00	(h	Zemlja	z	Z	9	Ш	ш	Ša	uı	š	
8	ep.	Iže	H	i	10						
8	8	I		i	20	8	-8	Jer	7.	0 0	
A.O		Děrv' o.				-R%	88	Jery	Ta	y	
M	AR }	Jot	<b>ђ</b> , г	dj, j	30	-8	8 /	00.3			
þ	5	Kako	Б	k	40		1	Jerek	Ь	$\frac{e}{i}$	
æ	æ	Ljudi	N.	ï	50	A	Δ,	Jef	ъ	è, ja	
कु	38 )	Dj dan			00	P	D	Ju	10	ju	
M	M	Myslite	11	m	60	€	€	Es .			
P	P	Naš			70				7	é	
9	9	On	H	n		€	3€	As	- A	ą	
P			0	0	80	€	3€	Jes	- tă	ję	
	₽°	Pokoj	н	p	90	<b>3</b> €		Jąs	lă	ją	
Ь	Ь	R'ci	P	r	100	0	•	Thita	0	th	1
8	8	Slovo	C	S	200	8.	8.	Ižica	K	У	
σ	o	Tvr'do	T	t	300				-		

#### NOTES.

- 1. The letter Jery is a compound of Jer and Ize.
- 2. The letters  $\mathbf{x}-\mathbf{m}$  and  $\mathbf{a}-\mathbf{l}$  are duplicate forms.  $\mathbf{x}$  and  $\mathbf{a}$  are peculiar to Bulgarian MSS;  $\mathbf{m}$  and  $\mathbf{l}$  are Croatian characters.  $\mathbf{a}$  on the other hand is not a real duplicate form of  $\mathbf{\phi}$ , it being identical with  $\mathbf{\phi}$ , which is used instead of  $\mathbf{\phi}$ .
- 3. These characters are arranged to be printed without abbreviations, which are confined to liturgical books.
- 4. The numerical power of the letters is indicated by dots on both sides, as
- 5. Further information on the value and the pronunciation of the accented letters is given in the Czechian and Polish Alphabets.

### CROATO-GLAGOLITIC.

Designed from Croatian MSS and printed works by Dr. PAUL Jos. SCHAFARIK; cut at the type-factory of Gottlieb Haase Söhne in Prague.

Fo	rm	Name	Value	Num: value	Form	Name	Value	Num: value
ф	ıħ.	Az	a a	4	<b>E E</b>	Uk	u	400
쁜	쁜	Buky	b	2	Фф	Fert	f, ph	300
Ш	00	Vědi	v	3	la la	Chěr	kh (ch)	600
<b>%</b>	%	Glagol'	g	4	<b>O</b> 0	Ó	ó	700
Ш	Ш	Dobro	d	5	Ж ж	Šta	št	800
3	3	Est'	e	6	v v	Ci	ts *	900
ď	ďa	Živěte	ž	7	分 公	Červ'	č	1000
Æ	B	Zělo	z	8	Шш	Ša	š	
Pa	θo	Zemlja	z	9	-8 -8	Jer	0	
æ	9	Iže	i	40	EL EL	361	e	
8	8	I	i	20	-BB -88	Jery		
ПP	np	( Děrv' )	J	20	#W #P	1 Jein	У	
111	ПP	e. Jot	dy, y	30	-B -8	Jerek	$\frac{\mathbf{e}}{\mathbf{i}}$	
4	Ļ	Kako	k	40	T	Jetek	i	
46	qp,	Ljudi	1	50	A B	Jet'	ě, ya	
$\mathbf{M}$	M	Myslite	m	60		Ju	yu	
P	P	Naš	n	70	<b>€</b> €	Ęs	ę	
В	В	On	<b>o</b>	80	<b>३€ ३€</b>	Ąs	ą	
la	П	Pokoj	p	90	3€ 3€	Jęs	уę	
Б	Б	R'ci	r	100	<b>3</b> € 3€	Jąs	yą	
ጸ	ጸ	Slovo	s	200	Ф Ф	Thita	th	
and a	m	Tvr'do	t	300	B 8	Ižica	У	

#### NOTES.

- 1. These characters are designed to be printed without the abbreviations, peculiar to liturgical works.
- 2. The numerical letters are distinguished by dots on both sides, as .m. .e. etc.
- 3. The punctuation is the same as in other languages.
- 4. The letters &, %E, 3E and &E, the forms 3 and 3, together with the combinations 38 and 38\, are only found in Bulgarian MSS. The ligature \( \mathbf{x} \) instead of 33 only occurs in Croatian MSS.
- 5. The value and pronunciation of the accented Roman characters may be ascertained by referring to the Czechian and Polish Alphabets.

## RUSSIAN

Form		Name	Value	Observations
Straight	Italic			
A a	A a	As	a	The Russian Alphabet consists of 35 letters. Ecclesiasti-
Бб	Бб	Buki	b	cal and Old-Russian works,
Вв	Вв	Vyedi	v ff	being written in the ancient Slavonic character, contain the
Гг	$\Gamma$ $\imath$	Glagol	g gh	following additional letters,
Ди	A 13 0	Dobro	d	5 (Selo) s, $\delta$ or $\delta$ (Ik) $u$ , $\delta$ (Ot) $\delta$ , $\delta$ (Yuss) $\delta$ , $\delta$ (O) $\delta$ ,
E e	E e	Yest	é yé yo o	$\mathfrak{F}(Ksi)$ $x$ , $\Psi$ (Psi) ps.  In ecclesiastical books these
жж	Ж эк	Zhivete	zh sh	letters serve as numerals, and are arranged as in Greek. The
3 3	З з	Zemla	Z	sign 🛶 is placed over numeri-
ИЙий	ИЙий	Izhe	i	cal letters.
liï	I i i	I	i	a has the sounds of bar and bat. 6 like b. Before the strong
Кк	$K^-\kappa$	Kako	k ck	consonants and as a final letter
A a	A $a$	Lïudi	1	it sounds like p. в 1) At the beginning of a syl-
Мм	M n	Muislete	m	lable and before A H p like v. 2) As a final, and before a hard
Нп	Н н	Nash	n	consonant, like f.
0 0	0 0	On	o a	r 1) As an initial and medial letter nearly like g in give, but
II n	$\prod n$	Pekei	p	with a hard Hibernian aspiration. 2) As a final, or before sh,
Рр	P - p	Rtsui	r	like k. 3) In ecclesiastical pro-
C	C $c$	Slovo	s	h. In some words, especially
Ттш	T + m	Tverdo	t	foreign, it sounds like ch in the Scotch loch. 4) The adjectival
y y	$\mathbf{y}$	U	u	and pronominal ending ro is
ΦΦ	$\Phi$ $\phi$	Fert	ph f	commonly pronounced ro, and in inferior style it is even spelled
Xx	X x	Kherr	kh (ch in Ger.)	so. A as our d.
Цц	Цу	Tsui	ts	e 1) At the beginning of syl-
में प	$\vec{y}_{y}$	Tshery	ch	lables like yai. 2) At the end of syllables like e in met, with a
Шш	Ши	Sha	sh	feeble y before it. After sibilants this y is not heard. 3)
Щщ	Щщ	Shtsha	shch	When accented it sounds like
Ъъ	$\frac{1}{2}$ $\frac{1}{2}$	Yerr	hard suffix	yeo in yeoman, and after жчи щ ц like o in go. This rule is
Ыы	Ыы	Yerui	lli i thick	applied a) before a consonant followed by the vowels $a, o, y$ ,
Ьь	$\frac{\mathbf{b}}{\mathbf{b}}$	Yer	soft suffix	ы, ъ; b) at the end of a word:
Бъ	<b>В 11.</b> т	Yat	yé éyo	c) in the instrumental case en or en of nouns fem. sing: d) be-
Ээ	$\frac{\partial}{\partial} = \frac{\partial}{\partial}$	E	è	fore г, к, х, and the sibilants ж, ш. e) in the present tense.
Юю	Ю 10	Yu	у00 гг.	In improved spelling the sound
я К	Яя	Ya	ya yè	of 40 or 0 is indicated by e. This e also denotes the French sound
ΘΘ	$\theta$ $\theta$	Fita	f	of eu. $\mathbf{x}$ like $j$ in the French word
Vv	V c	Izhitza	yv	jour.
		1		n and i sound alike.

#### RUSSIAN

#### Observations

A final, attended by B, sounds very hard.

o accented, sounds like the o in go. When unaccented it is pronounced like the a in far.

x is a stronger guttural than ch in the Scotch loch.

ц like tz in Fritz.

ч ordinarily like ch in church. In 4To (what) and before nit takes the sound of sh.

m consists of the sounds of sh-ch. A notion of its pronunciation may be formed by a connected articulation of the letters sh-chi in the words Engli**sh chi**ldren.

ъ after a final consonant produces a hard and ringing sound.

ь is placed at the end of words where it softens the preceding consonant, and adds to it the sound of ye, such as is heard in the French pronunciation of Charlemagne. In the middle of a word, mostly between two consonants, it is uttered with a slight sound of ee.

ы is identical with the Polish y, and somewhat like the English we, when rapidly articulated.

ts as an initial like yai. The y of this diphthong is also sounded in the middle of a syllable after n, but is scarcely audible after the other consonants.

3 This reversed e is the initial of words commencing with the sound ai. It occurs in foreign words in which it replaces oe.

to sounds like ew. In foreign words it is similar to the French u.

я when accented, sounds like ya in yard. In unaccented initial syllables it sounds ye. After consonants it is pronounced like e in met. As a final letter it takes the sound of ya in yard.

e represents the same Greek letter but is pronounced like F. In modern derivations from the Greek it is replaced by F.

v only occurs in Greek words. At the beginning of a word or after a consonant it sounds like ee, and after a vowel like v.

The letters h, c, x, f, do not occur in the Russian alphabet. They are represented as follows: 1) h is replaced by  $\mathbf{r}$ , as in Гамбургъ Hamburg, or it is omitted altogether, especially

#### CURRENT HAND

A	$\mathcal{A}$	α α	A	a	M	116	m m	Тт
8	$\mathcal{T}$	568	Б	б	y	y	y 4	уу
6	${\mathcal B}$	пев	В	В	$\mathcal{G}$	S	.fs fs	ФФ
$ \mathcal{J} $	$\mathcal{T}$	J i	Γ	г	$\mathcal{X}$	$\mathcal{X}$	x x	X x
Д,	D	$Q \partial g$	Д	Д	II,	U	14, 14	И ц
8	8	ε ε	E		U	T	7 z	$\mathbf{q}_{-\mathbf{q}}$
		7 ж		ж	111	W	ши	Шш
		3 3	3	3	111,	Ш	щ, щ,	Щщ
1	W		И		25	8	r 6	ъъ
$ \mathcal{J} $	${\mathscr F}$	i i	I	ï	M	6l	6l 6l	Ы ы
$\mathcal{K}$	46	n h	К	К	$\mathcal{Z}$	6	6 6	Ьь
$\mathcal{A}$	$\mathcal{A}$	Sn 1	Л	Л	$\mathcal{Z}$	$\mathscr{H}$	16 16	<b>\$</b> \$
M	$\mathcal{M}$	Su M	M	M		3	Э	Э э
$ \mathcal{H} $	$\mathcal{H}$	н н	Н	Н	<i>FO</i>	30	10 10	Юю
0	0	0 0	0	0	$\mathfrak{I}$	R	a A	я В
$\mathcal{M}$	$\mathcal{T}$	$\pi$ $n$	П	п	0	0	0 0	θ θ
$\mathscr{P}$	Z	.p/r	P	p	7	V	rv	V v
$\mathcal{C}$	É	СС	С	c		6		

in Latin words as Аннибаль, Hannibal. 2) с before e, i, y, sounding like the German z or tz, is expressed by ц as Цицеронъ, and before a, o, u by k, as **Konneria.** 3) x is expressed by  $\kappa c$ , as **Алексъ**й (Alexius). 4) f and the German v are changed into  $\Phi$ , as  $\Phi$ ридрихъ Frederick.

#### DIPHTHONGS.

Proper diphthongs are only formed by the n following a vowel. This letter receives in such a case a characteristic sign at the top (й). The diphthongs are ай ей їй ой уй ый ый ый ой яй.

#### ACCENTS.

The stress of an accented vowel is indicated by the acute (') and the grave ('). The former denotes the raising, the latter the depression of the tone. The accents are only then marked in writing, when corresponding forms are to be distinguished from one another. They are placed over the following vowels a e u i o y b b b y y v.

SERVIAN.
(Modern form, cut by F. Rösch in Leipzic.)

This language is divided into the dialects of the Herzegovina, of Ressava and Syrmia. The Servians use the Slavonic (Cyrillie), the Croats and Wends the Roman characters

## ILLYRIAN.

Nr. I represents the "organic" orthography now used in Roman-Catholic publications; Nrs. II and III are to some extent current in Slavonia, Croatia and Dalmatia.

characters.								
Cyrillic	Latin	Pronunciation	I.	II.	III.	Pronunciation		
$A a \mid$	A a	a	a	a	a			
Бб	Вь	b	b	b	b	The Vowels a, o, u, i, e sound as in German or		
Вв	V v	v	C	C uls	cz	Italian.		
$\Gamma$ r	G g	g	ć	ch	ch	ě as a medial, follows		
Дд	$\mathbf{D} \stackrel{o}{d}$	ď	ď	cs d	es d	all the consonants except		
	Dj dj	dy, Hungarian gy	dj	dj	dy	gutturals. It rarely is a final letter and never an		
<b>Б</b> Б Е е	E e	e	e	e	e	initial. Its general sound		
Жж	Žž		ě	e i	e i	is like ye (in yes). In		
2		j in French	f	f	f	the dialect of the Herze- govina it has the same		
TT	Zz	Z	g.	g <sub>.</sub>	g	pronunciation when not		
	1 i	i	gj	gj	gy	lengthened, otherwise it		
I i	1 1	У	h i	i	h i	with ye, as is heard in		
J j	J j	У	:		;	see yet. Before i, like y		
К к	K k	k	k k	k k	k k	in ye. In the Syrmian		
Л л	L I	1	i	i	1	dialect it varies between ay and ee. In the Ressava		
Љъ	Lj lj	ly, Ital. gl, gli	lj	lj	ly	dialect it almost invariably		
М м	M m	m	m	m	m	sounds like ay (in nay). This <b>č</b> is now often spelled		
Н н	Nn	n	n <sub>.</sub>	n.	11	ie.		
Њв	Nj nj	ñ Ital, and Fr. 11g	nj	nj	ny	c is like ts in lots.		
0 o	0 0	0	o p	o p	o p	ć and tj almost like ts.		
Пп	Рр	p	r	r	r	The difference between these spellings is, that Ć		
Рр	Rr	r	s	s	ss sz	can be used in discriminate-		
C c	S s	s	š	sh	sc	ly, and tj only in derived		
Тт	T t	t	t :	t ch	1	words. È like j in jar.		
ħħ	Ćć	ty, tj	tj u	u	l ty u	dj and gj are nearly		
Уу	U u	u	v	v	v	like j in jar.		
ΦΦ	F f	f	Z	Z	Z	lj like lli in William.		
Xx	H h	h	ž	X	S	nj like ni in opinion.		
Цц	C c	ts	dž	dx cx	ds	š like sh.		
Чч	Čč	ch `		s in mea				
Шш	Šš	sh		e j in jar				
Щщ	Šć šć	sheh				f a consonant and a vowel. as in other languages. As		
Ъъ	_	hardening suffix				e syllable and is pronounced		
Ыы	1 i	ee, French U				f e. The orthography of		
Ьь		softening suffix				· spell it er, the Ragusans and simply write r, others		
Ъъ	Je je è ie	yé, ié	again w					
$\tilde{\mathbf{e}}$	Je je	yé						
Юю	Ju ju	yū	Acce length (	ents use	d in Ser	vian: acute (^); sign of ' of brevity.		
Яя	Ja ja	yā		,, 0 31		4		
Ü ü	Dž dž	i						
$\Theta \Theta$	Th th	th						
0	i ii tii	Tu Tu						

## WALLACHIAN

Form	Name	Value		Modern Shape	Improved Modern Shape
Яа	As	a		A a a	Antiqua Current
ББ	Buke	b	Besides the Alphabet on the left		A a A a a
Вв	Vide	v	there are two va-	<b>B</b> 6   b	Б Б Б Б Б
Гг	Glagol	g	rieties of charac- ters.	В в v	
Дд	Dobro	d		$\Gamma r g$	$\parallel$ B B B B $\mid$ V
€ €	Yest	ye e long	ь(pronounced <i>Eer</i> ) is appended to a	A A d	$\Gamma$ $\Gamma$ $\Gamma$ $\Gamma$ $g$
Жж	Shivete	zh	consonant at the	T '	D d D d d
<b>3</b> 5	Zalo	Nr. 6	end of a word without being		
3 3	Zemlia	Z	sounded. In mo-	Жжzh	
ИЙй	I	i	dern printing it is omitted.	3 3 Z	$\mathbf{J}$ $\mathbf{J}$ $\mathbf{J}$ $\mathbf{J}$ $\mathbf{J}$ $\mathbf{J}$ (Fr.)
İĭïi	Ishe	y		I i i	Z Z Z Z z
Кк	Kako	k	bl (Yory) is only employed in words	K K k	
Лл	Lïude	1	of Slavonic origin.	A A 1	1
M m	Meslite	m	Y Ishitza, occurs		$K \times K \times K \times K$
Н н	Nash	n	in words derived	<b>М</b> м m	L A L A I
0 σ	On	0	from the Greek.  After vowels its	Н н п	M m M m m
II n	Pokoi	p	sound is v, after	0 0 0	
Pρ	Rtse	r	consonants i (as in Bit).	ппр	
<b>С</b> С	Slovo	S		P p r	0 0 0 0 0
Тт	Tverdo	t		T P	ПпПпр
8 8	Uk	u	SHORT ACCENTS.	700	P P P P r
Oy oy	Uniku Fert	u f nh	o is placed over an initial vowel	T T t	
ФФ	Khir	f ph kh h	and the diph-	y y u	$\begin{bmatrix} \mathbf{S} & \mathbf{s} & \mathbf{S} & \mathbf{s} & \mathbf{s} \end{bmatrix}$
XX G)ω	0	O long	thong 10.	$\Phi \Phi f$	T t $T$ $t$ t
Цц	Tsi	ts	o stands over a medial and final	X x kh(ch)	Y y Y y u
स्रुष्ठ पुष	Cher	ch	H and over a	Ц ц ts	Φ Φ Φ f
III m	Sha	sh	final 10.		
Щщ	Shta	sht		Ч ч ch	$X \times X \times X = x \mid \text{kh/ch}$
Ъъ	Yor	e short	LONG ACCENTS.	III m sh	U, u, U, y ts
a A	Yaty	éa	" over initial vow-	Щщsht	Ч ч Ч ч сh
Жň	Yus	è (uüh)	els and over 10.	<b>Ъ</b> ъ е	Uf u <i>III u</i> sh
Юю	Yu	yu	over medial vow-	To to éa	
IA 1a	Yako	ya	els.	Я я уа	Ъъ Зъве
à ἀ	Ia	ya	over the medial	W /	$\hat{l}$ $\hat{i}$ $\hat{l}$ $\hat{l}$ (ün)
<del>0</del> &	Ftita	ft th	4, 15, A, H.	A A (uüh)	U u <i>U y</i> j
K, A	Psi	ps	~ ¬ over abbre-	∙ <b>↑</b> • <b>↑</b> iin	
<b>3</b> 2	Xi	X	viations and let-	П п ј	APOSTROPHISED LETTERS.
VV	Ishitza	vi*	ters employed as unmerals.	A and Y are only	ĂăĔĕĬĭĬŧŎŏゞ
1 A	Ün	üng in Germ.		nsed in foreign words.	Ŭŭ Dd Ss Tt An
Цц	Je	j ;		Works.	bû ô \$ 1 î u u

The Alphabet to the left is used in liturgical and ancient works. With the improved cultivation of the language the letters have been considerably simplified, as is shown in the two Alphabets at the right. No notice has been taken here of the ancient names and the accentuation of the letters.

### POLISH

	a l	ike	a
Ą	ą		ong
·	e	_	e
	é		ié
Ę	ę	_	eng
	i	_	i
	O	_	0
Ó	ó	-	ou
	u	_	u
	у	-	e (ü)
	b		b
	ģ		by'
	c		ts
C	ć	_	tssh
	cz		ch
	d	-	d
	dz	-	dz
	dź		dzy'
	dż	_	j
	f		f
	g		g
	h	— l	1 (ch)
	ch	-	kh
	j		У
	k		k
	1	-	1
Ł	ł		
	m		m
	m	_	my'
./.	n		n
N	ń	-	ny'
	þ	_	p
	ý	-	p
	r	_	r
	rz		rsh
. 6	S	_	S
S	ś		sy'
	SZ		sh
	t	_	t
	W	_	V
	w	-	vy'
4	Z		Z
Z	ź,	-	zy'

Żż Zż-j(Fr.)

The marginal column shows the pronunciation of Polish letters in as far as it approximates the English. The vowels a, e, i, o, ou, u,  $\ddot{u}$  in the adjoining column are sounded as in German. The following peculiarities must be noticed.

These vowels have a clear and distinct sound, except the i which obtains the consonantal force of y, when it is followed by a vowel and preceded by b, c, dz, m, n, p, s, w, z. In this case the i is merely the medium of softening the consonant, Ex: biodro (loin) sounds byodro. Before e it becomes ie.

The consonants  $\dot{b}$ ,  $\dot{c}$ ,  $d\dot{z}$ , m, n, p, s, w, z are attended by a slight and rapid articulation of y, as if written by, cy, dzy, my, ny, py, sy, wy, zy. They stand as finals of words, and also of syllables followed by consonants. Of these letters  $\dot{c}$  takes the intermediate sound of our h and ch.

c sounds like ts in wants.

cz is our ch, and sz our sh.

dz sounds like ds in wands.

 $d\dot{z}$  is like j in jar.

h is of rare occurrence, the Slavonic h being represented in Polish by g. It is as guttural as the German ch, Ex: hultaj (a Good for nothing).

I the virgulated I is heavier than the common I. The middle part of the tongue is more raised in the articulation of this letter.

rz is r blended with  $\dot{z}.$  The r is softly rolled, and its z is like the French  $\dot{j}.$  Ex: przy.

 $\dot{z}$  like j in the French word jour.

### SORBIAN OR WENDISH OF LUSATIA.

The vowels are: a, o, u, y, e, i. The union of a and o makes o; o and u form o; e and i coalesce in e. The semi-consonant j is connected with i; h with e; w with a o u.

The consonants are divided 1) into Labials  $w,\,f,\,v,\,b,\,p,\,m.$  2) Palatals and Linguals  $n,\,l,\,r.$  3) Dentals  $d,\,t,\,\acute{e}.$  4) Sibilants  $z\,\dot{z},\,s\,\dot{s},\,c\,\,\dot{e}.$  5) Gutturals  $h\,ch\,(g)\,k.$ 

With regard to their articulation these consonants are divided into broad and slender sounds, according as they are hardened or softened in their utterance.

Broad sounds: w,  $\dot{w}$ , b,  $\dot{b}$ , z,  $\dot{z}$ , d, dz,  $d\dot{z}$ , h, g. Slender sounds: f, v, p,  $\dot{p}$ , s,  $\dot{s}$ , t, c,  $\dot{c}$ ,  $\dot{c}$ , ds, ts, ch, k.

Between these letters nine intermediates take their place: m, m, n, n, n, l', l, l, r, r.

The whole Alphabet thus consists of the following 8 vowels and 32 consonants. A (ò) o, ó, u, y, e, e, i; j, w, ŵ (f, v) b, b, p, p, m, m, n, n, l, l, (l'), r, r, z, z, s, š, d, dz, dz, t, c, é, č, ts, h, ch, g, k.

In combining one consonant or several consonants with a vowel to form a syllable, a distinction is made between hard soft and neutral consonants.

At the same time the following rule is to be observed. In the grammatical combinations of structure, derivation, declension, comparison and conjugation the vowel y cannot follow a soft consonant, non-can e and i follow a hard consonant, whilst the neutral consonants may be succeeded by either y or i. In conformily with this rule are reckoned as

Soft, j  $\dot{\mathbf{w}}$  v  $\dot{\mathbf{b}}$   $\dot{\mathbf{p}}$   $\dot{\mathbf{m}}$   $\dot{\mathbf{n}}$  l  $\dot{\mathbf{r}}$   $\dot{\mathbf{z}}$   $\dot{\mathbf{s}}$   $\dot{\mathbf{c}}$  d $\dot{\mathbf{z}}$   $\dot{\mathbf{c}}$ . Hard,  $\dot{\mathbf{l}}$  r z s d dz t c (h ch g k). Neutral,  $\dot{\mathbf{w}}$  f b p m n ds ts.

The letters qu and x, in words of foreign origin, are spelled kw and ks, as kwadrat, Aleksander, kwas. Also g occurs only in foreign words. V and f are found in but few vernacular terms.

#### PRONUNCIATION OF THE CONSONANTS.

The accented characters  $\acute{w}$   $\acute{b}$   $\acute{p}$   $\acute{m}$   $\acute{n}$  differ from the unaccented in softness of sound. Before e (acute)  $\acute{e}$  and  $\acute{i}$  this accent is unnecessary, because these vowels are sufficient to soften the preceding consonants.

I sounds like v. In the north-eastern part of the country it is pronounced like a harsh l. For instance čóło.

dz as in English, but without a break between the two letters. Example na fidzy.

dż like g in gentle, as dżera, nadżya.

z as in English, f. i. zuby.

ż like the s in pleasure, f. i. żolty.

š like sh, f. i. šaty, šéry.

c like ts, as cybać.

· ć nearly like ch in churn, f. i. ćerń.

č the sharpest sibilant like tch in wretch, f. i. čorny.

ds, ts like ts, f. i. tsihać.

ch is frequently pronounced hard, like c before a, o, u, especially at the beginning of words, for instance chory.

j like y in yes.

s like z.

w like v.

#### PRONUNCIATION OF THE VOWELS.

a i u as the vowels in are, here, true.

e is acute, grave, or long. After c z s it is often pronounced like y.

o acute grave or lengthened.

ó deep nearly like u.

è like ea in dear.

y deep as ea in dearth.

### CZECHIAN OR BOHEMIAN.

Roman.

abedefghehijk lmnoprstuvyz — á é í ó ú ý — ů — è Č è Ď ď Ď ď Č g ň Ř ř Š š Ť ť ť Ž ž

German.

# abedefghchijf lmnoprfetuvy z — á ć í ó ú ý — ů — č Č č Ď ď D' v G Š ú Ř ř Š Š ž ř r' Š ž

q and x only occur in foreign words. qu is generally replaced by ky as kvitance (receipt). Some writers use w for y and ou for au.

The accented vowels á é í ú y and ű are long: without accent their pronnuciation is short.

- ě i í are termed soft vowels. The others are hard
- h ch k r are hard consonants.
- cčď jňřšť ž are soft, and
- h d f g l m n p s t v z are called indednite consonants.

## THE FOLLOWING SOUNDS DIFFER FROM THE ENGLISH PRONUNCIATION.

- a sounds like the first a in papa.
- á like a in father.
- c even before k, sounds like ts, as necky (nets-kn) the tray.
- č like ch in church.
- d before i i or when marked with the liquifying sign (d) is sounded dy. This consonantal y is softly blended with its d, as div or diw (pronounced dyiv).
- e like e in den.
- é like a in late.
- ě as ye in yet. It can only occur after v, f, b, p, m, n, d, t with which it coalesces. As věk (vyek) a century.
- ey like a in late followed by y in yet, as woley (call thou). This final y forms a distinct sound.
- g as in garnet. It only occurs in foreign words.
- h aspirated at the beginning and in the middle of a word like h in house. At the end of a syllable it partakes of the guttural sound of ch and is somewhat softer than ch in the Scotch loch.
- ch like ch in the Scotch word loch, as chleb (bread).
- i as in grin.
- í like ee in green.

- j like y, as jaro (pr. yaro) springtime,
- n before i i, or when marked ň, sounds like ni in opinion.
- o as in of.
- ó as in door.
- ou is a diphthong which blends the sound of o (in pole) with u (in put). These vowels retain their separate pronunciation in verbs with prefixed po, as poubrati (po-u-bra-ti).
- š (in German type ff, and as a flual, 5) like sh in fish.
- t before i i, or when marked i, sounds like a t with which the semi-vowel y coalesces, as inlipan (prontyoo-le-pan) tulip.
- u as in put.
- ù and û long as in blue.
- y like u in the French pure.
- z as in English but.
- ž like s in measure.

#### ORTHOEPIC RULES.

- The vowels with the long accent (') should not be lengthened to excess,
- 2) The consonants s, š, z, ž, become mute before the affix sky, as vesský.
- 3) The consonant j, as an initial hefore another consonant, is not pronounced, as jsem. When a syllable ending in a vowel precedes, the j becomes audible.
- 4) The compounds to ds and ts are pronounced like c; dš and tš, like č.
- 5) Prepositions consisting of a simple consonant, such as k, s, v, z, although standing by themselves, do not form a syllable, but are sounded together with the first syllable of the next word, for instance k tobě s námi. These unconnected prepositions cannot be placed by themselves at the end of a line or a page.

- 6) The auxiliary verb. jsem, jsi, jest-jsme, jste, jsou, the conjunctional particles bych, bys, by, bychom, byste, bý, and the reflective pronouns se, si attached to an active participle, are blended together in the pronunciation and joined by a hyphen. The same is the case when si, se are postpositions of nouns or adjectives. E.g. shledání-se, modlící-se.
- 7) The soft consonants must be carefully distinguished in articulation from the indefinites, and the i  $\acute{i}$   $\acute{e}$  must properly coalesce with the latter.
- 8) The sibilants c s z differ from each other as well as from č š ž.
- 9) h is never mute. Example hrom (thunder) in which the h sounds as the h in the Scotch pronunciation of which.
- 10) The accent always rests on the first syllable, as be-žim, pri-nesu. The accented syllable may at the same time he lengthened, as sná-žim, krá-sa.

#### DIVISION OF SYLLABLES.

In words which are difficult to pronounce, owing to the complication of consonants, it is of importance

to ascertain the component syllables. In this language most syllables end in vowels. The following circumstances must be noticed in applying this rule.

- 1) A consonant placed between two vowels or between a vowel and l or r, joins the next syllable. Example: stra ka, ba vl na.
- 2) Of several consonants, followed by a vowel, only the last consonant goes to the next syllable; yet sk, šk, st, št are not separated hut join the next syllable. In such instances the preceding syllable is often without a vowel, while 1 or r forms the medial consonant. Example, hrn-číř.
- 3) l, r, ř, with a vowel after, are joined by the preceding consonant in forming one syllable. To this rule n forms an exception. The consonants sk, šk, št, št must without separation be annexed to the syllable which follows. Example, kno-flík, zei-dlík, svě-tlo, han-li-vý.
- 4) Compound words are divided according to their component parts, as ou-voz, ná-dvo-ří.

### HUNGARIAN.

The Hungarian language comprises 31 sonants which are expressed by the Roman Alphabet. Owing to the combinations of some letters the Alphabet is formed as follows:

a b cs cz d e f g gy h i j k l ly m n ny o ö p r s sz t ty u ü v z zs.

The vowels  $a\ e\ i\ o\ \ddot{o}\ u\ \ddot{u}$ , are sounded as in German. With the accent at the top the vowels  $\acute{a}\ \acute{e}\ i\ \acute{o}\ \ddot{o}\ \ddot{u}\ \ddot{u}$  are lengthened.

The combinations  $cs\ cz\ gy\ ly\ ny\ sz\ ty\ zs$  represent single articulations and are inseparable in spelling.

cs sounds like ch as kocsi.

cz » » ts as czukor.

gy » » di in the French word Dieu, as gyár.

ly » " il in the French word email, as homály.

ny » » ni in opinion, as anya.

sz » » s as szag.

ty » » ti in the French metier as tyuk.

zs » » j in the French word jour as  $zs\acute{a}k$ .

With regard to the consonants is to be noticed that,

j is pronounced like y in yes, and

s like the English sh, as sas.

The letters c ch q w x are only found in foreign words, for instance Cato. Achilles.

y does not represent an independent sound, but simply helps to soften the antecedent letter. Nevertheless in Old-Hungarian words y and ch are employed as independent letters. The former then sounds like i in it, and ch as in church. For example P'alffy, Forgach.

The compounds cs and cz are often denoted by ts and tz. Modern Orthography rejects this spelling except in words where the t is radical, as  $bar \acute{a} ts \acute{a} g$  (not bar  $\acute{a} cs \acute{a} g$ ).

## LETTISH.

The Lets have adopted the following 22 letters of the German Alphabet,

abedeghijtlmnoprjštuwz.

The c and h are only used in combination with f to express the sounds of fd, and fd. The h moreover serves to lengthen the vowels. The German consonants h dh f v never occur in Lettish. Nor are  $\ddot{v}$  and  $\ddot{u}$  in use. The q r h are represented by fw, f  $\bar{s}$ ,  $\dot{s}$ .

By means of the 22 characters the following 34 simple sounds of the Lettish language are formed.

abbjbegg Gjiff AlfEmmjun Roppire R jbj sch bich f S (8) sch t tsch uw wiz.

PRONUNCIATION OF THE SIMPLE VOWELS.

a ci u are short. When lengthened they are marked thus,

àèìù

The o is always long, nevertheless it receives the lengthening mark to distinguish the accented of and ô from the lighter c.

#### PRONUNCIATION OF THE DIPHTHONGS.

There are six diphthongs in this language, at an civilic. The first five are pronounced as in German. Although at and ci are naturally long they occur with the circumflex at ci. The diphthong ci only appears in the word wei. When an and ni are to become separate syllables the n and i are marked with the discress, an, ni. Peculiar is the sound of ce; it passes from the articulation of ce (such as is heard in the German word Sec or in the English word say) to an intermediate sound, such as is heard in the second a of advantage.

#### CONSONANTS.

The following letters have the English sound,  $\mathfrak b \mathfrak f \mathfrak m \mathfrak n \mathfrak p \mathfrak r \mathfrak t$ . The j is a consonant like our  $\mathfrak y$ ;  $\mathfrak w$  sounds as  $\mathfrak v$ , and  $\mathfrak f$  like  $\mathfrak t \mathfrak v$ . The labials  $\mathfrak f \mathfrak m \mathfrak p \mathfrak w$  may be followed by the modifying j, which like the Russian  $\mathfrak b$ , helps to soften the consonant and causes a slight i to ring after it. It cannot be separated from the consonant nor uttered as an independent letter. In  $\mathfrak r$  are virgulated as  $\mathfrak f \mathfrak m \mathfrak r$ , instead of being followed by j. Besides these letters the following four are virgulated.

g like the German f before e and i; g is like f before a o u.

t hard like k in king, t as c in come, cut.

f, sharp like our s. & is the final of this sharp f.

f is soft like our 3.

bi form an inseparable sound like the soft Italian z.

[th sharp like the Russian in and the English sh. The virgula of  $\mathfrak{f}$  and  $\mathfrak{f}$  does not indicate the sound of an inherent  $\mathfrak{f}$ . It only helps to distinguish the sharply pronounced consonant from the soft  $\mathfrak{f}$  and  $\mathfrak{f}$  and  $\mathfrak{f}$ , the latter is pronounced like the Russian  $\mathfrak{K}$  or the French j in jour.

tid is like the English ch and bid like g in gentle.

### PRONUNCIATION OF SUCCESSIVE CONSONANTS.

Two or more Consonants, joined together in one syllable or in two syllables, must be so articulated that each should retain its original and independent sound. The it is somewhat modified by the g and f. It being assimilated with these letters, its sound is like that in the English words sing, sink (not as in tingle, tinkle). When g and f are marked with the cross-stroke the it is likewise virgulated, and is then pronounced in accordance with the foregoing rules.

## **GERMAN**

A ve	A	a	a	M n	N	n	n	Et vi	Ü	ä	ä
L b	33	$\mathfrak{b}$	b .	O v	ವಿ	0	0	Ö "	Ö	ö	ö
L	C	c	c	R g	Ŗ	p	p	Ü "	ü	ü	ü
22	D	б	d	J my	ವಿ	q	q	of	ch		ch
f n	E	e	e	R w		r	r	-k	cŧ		ck
et f	$\mathfrak{F}$	f	f	MfB	<u>e</u>	Í ŝ	S	ff	ff		ff
g y	(§	g	g	21	T	t	t	fi	fi		fi
5/	Ş	ħ	h	Min	u	u	u	fl	fl		fl
"J" i	F	i	i	All so	V	v	v	-Si	ĵi		si
J j	F	į	j	Morro	W	w	W	-P	ĩĩ		ss
Di k	R	ŧ	k	26 6	X	ŗ	X	A	ĩt		st
$\mathcal{L}$ $\ell$	£	ĺ	1	J -y	9)	ŋ	у	-3	ß		sz
Mim	M	m	m		3	3	Z	by	ţ		tz

The vowels are: a ä e i o ö u ü. The diphthongs compound vowels are: ai ei au äu eu; all other letters are consonants.

- Simple vowels.

  Every vowel, followed by two consonants, is short, if followed by only one consonant it is long.

  A a is pronounced like a in the English word father.

  The is pronounced like a in the English word late.

  E e is pronounced like e in the English word let.

  To is pronounced like e in the English word me.

  To is pronounced like e in the English word hope.
  - Öö is pronounced like *eu* in the French word *seul.* It is pronounced like *oo* in the English word *roof.*
- it is is pronounced like the French u. There is no corresponding sound in the English language.

  9 h has the sound of the German i, by which it is generally replaced.

Double vowels.

The double vowels aa, ce, vo, are no diphthongs, because only one letter is sounded, and the second serves to indicate that the syllable is long.

ic is pronounced like ea in the English word meat.

Diphthongs.

In the German diphthongs, the two vowels must be sounded one after the other, but so quickly as to form only one syllable.

at and ti are pronounced almost alike, and have the sound of the English i in the word fire.

an is pronounced like ou in the English word house.

and cu sound almost like oy in the word joy.

Consonants.

The pronunciation of the consonants differs but little in the two languages; the learner should notice the following peculiarities.

© c before a c and i is pronounced like ts.

Before a o n, before a consonant, and at the end of a syllable it is pronounced like k, by which in most cases it may be replaced.

© the at the beginning of a word is pronounced like k, except in words derived from the French, in which it retains the French pronunciation.

In the middle or at the end of a word & has a pronunciation quite peculiar to the German language, and more or less guttural, but for which no corresponding sound can be found in English; it is like the Scotch ch in the word loch after a e u au, but softer after a e i b i au eu, and after a consonant. As or affi is pronounced like x when these consonants belong to the root or radical syllable.

But the ds preserves its guttural pronunciation, when it stands before the s or i by contraction or in a compound word.

G g at the beginning of a syllable is pronounced like the English y in the word good; but between two vowels, in the middle of a word and at the end of a syllable it has a sound like the d, only nuch softened. After u at the end of a word it is pronounced like a very soft k.

S b is always aspirated at the beginning of a syllable.

like a very soft k. In the beginning of a syllable. The aspiration becomes however almost imperceptible before a final c.

After a vowel or a t, the b is not pronounced, but, only indicates that the syllable is long.

I jonly stands at the beginning of a syllable and is pronounced like the English y in the word yet. If replaces the double f, and is pronounced short. On an this beginning of a syllable is f, f is at the beginning of a syllable is pronounced like the English f, at the end of a syllable however like the English f, at the end of a syllable however like the English f, at the end of a uninflected word there are two f in eater another, they are written f, f is only placed at the end or in the middle of syllables, has the sound of the English f.

Sa sa is pronounced like the English sh.

ft and fp are pronounced like st and sp in English; but in some parts of Germany they pronounce ft at the beginning of a word like sht, and fy like shp. By has the sound of f. By in is pronounced like the English v. B is sounded like ts.

to replaces the double 3 and is pronounced very hard.

## **DANISH**

_	
$\mathfrak{A}$	a
Na	aa _
$\mathfrak{B}$	ь
$\mathfrak{C}$	c
D	8
E	e
F	f
ß	g
Ş	h (haa)
F	i
$\Im$	j (Jod)
R	f (kaa)
$\mathfrak{L}$	ĭ
M	m
98	n
Ð	D
P	p
Q	q
R	r
S	1 ŝ
T	t
u	u
$\mathfrak{V}$	v (we)
$\mathfrak{X}$	g
9)	ŋ
3	ð
26	æ (ä)

Ø v (ö)

The Danish language forms part of the great Gothic family and derives its origin from the ancient Norse which once extended over the whole of Scandinavia. Hence it is closely connected with modern Icelandic and Swedish, more distantly with the Germau, Dutch and English languages. In its further development it has embodied a variety of terms from the French, Latin and Greek.

The Alphabet consists of the adjoining 28 characters.

#### VOWELS AND DIPHTHONGS.

The simple vowels are

a aa e i o u y æ ø

They are long as in Stat (the a as in star) Raad, Been, blid, or short as in Stad, Nand, ved, Bid. The vowels e i o u y s have an open sound as in Plet, Digt, god, or a close sound as in stred, strid, god. e i u, as long middle vowels, are doubled unless the word ends in b d g v, as Steen, Been, Muns. At the end only the e is doubled, as see, see. The other vowels at the end of a syllable are always long, as Taa, Sti, Mo, and often add a mute e, as staae. In inflections the reduplication of the vowel ceases, as Huns, Huse. The vowels are cannot be spelled at ce. y is pronounced like the French u, not like the English y. Ex: Jude. aa mostly sounds like a in warm. In modern times å has been adopted for aa, and ö for the open v. For the deep pronunciation of this vowel, the mark v has been retained.

As diphthongs are reckoned at ci of of of an en cu ui. Some grammarians only admit the following six, at an ci cu cu of. The pronunciation of these vowels consists in a rapid blending of their respective sounds.

#### CONSONANTS.

The consonants are

bedfghjtlmnpgrsjtvrz.

According to the organs of speech they are divisible into: 1) Linguals  $\mathfrak{b}\mathfrak{tlur}$ . 2) Labials  $\mathfrak{b}\mathfrak{p}\mathfrak{v}\mathfrak{f}\mathfrak{m}$ . 3) Palatals  $\mathfrak{g}\mathfrak{f}\mathfrak{q}\mathfrak{j}$ . 4) Sibilants  $\mathfrak{f}\mathfrak{z}$ . 5) Aspirate  $\mathfrak{b}$ . In the dialect of the Juts the  $\mathfrak{h}$  is aspirated before  $\mathfrak{j}$  and  $\mathfrak{v}$ .  $\mathfrak{b}\mathfrak{d}\mathfrak{g}$  and  $\mathfrak{v}$  are softened to such a degree as to become frequently inaudible. After a vowel or when placed between two vowels  $\mathfrak{b}$  is pronounced  $\mathfrak{b}\mathfrak{h}$  (like

the Anglo-Saxon  $\mathfrak F$  or the English th in smooth). Double  $\mathfrak F$  has a similar pronunciation. Ib and  $\mathfrak m \mathfrak F$  sound like  $\mathfrak U$  and  $\mathfrak m n$ . In  $\mathfrak F$  the  $\mathfrak F$  has a very soft sound. Also before  $\mathfrak F$  the  $\mathfrak F$  loses part of its force, and it becomes inaudible before  $\mathfrak F$ , i sounds like  $\mathfrak F$  in  $\mathfrak F$  sounds like the English  $\mathfrak F$ .

The following letters are peculiar to foreign words. 1)  $\mathfrak c$  before  $\mathfrak o \mathfrak u$  or a consonant, is pronounced as in English; before  $\mathfrak c \mathfrak i \mathfrak h \mathfrak o \mathfrak s$ , it is like s.  $\mathfrak c$  is like k. 2)  $\mathfrak q$ , followed by  $\mathfrak v$ , sounds like kv. 3)  $\mathfrak z$  is like dz or tz, and sometimes like the English z. 4)  $\mathfrak v$  in the middle and at the end of a word is like gs or gs. As an initial it is almost as soft as gs.

Combinations of letters, ff fi fl II ff ft fl ft.

## SWEDISH.

The Alphabet consists of the following 28 letters,

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Xx Yy Zz Åå Ää Öö.

### PRONUNCIATION OF THE VOWELS.

The vowels a o u  $\mathring{a}$  are hard, and e i y  $\ddot{a}$   $\ddot{o}$  are soft. The vowels a i u sound as in German or Italian.  $\ddot{a}$  is like a in bare.  $\mathring{a}$  like o in tone. The e sounds as a in ale. 1) when forming an independent syllable, Ex: e-vig (eternal). 2) at the end of a syllable, Ex: ande (spirit). 3) In many monosyllabic words, inflections, derivations and compounds. e sounds like ai in air. 1) before f g l m r, when the next syllable of the same word is a consonant, as efter (after). 2) before j as nej (no). 3) in many monosyllables, as elg (elk). These rules have many exceptions. o has two sounds, 1) nearly as in move, when it constitutes a syllable by itself, or at the end of a word; also before the radical m, in nouns and adjectives; in all derivatives of words ending in o; before x and in various other forms of words. 2) o has a lengthened sound before a final f, and a sharp sound (as in not) before m n p r t. —  $\ddot{o}$  is mostly lengthened (nearly like the French eu in lent) as  $d\ddot{o}$  (to die), or the sound is sharper and quicker, as för (for).

There are no diphthongs in this language.

#### CONSONANTS.

- b retains its ordinary sound.
- c before k stands for kk. Before h it only occurs in the Swedish word Och (pronounced ock). Before the soft vowels it sounds like s, before the hard vowels like k.
- d sounds like our d. Before t like t. As a final after n almost like n. Before j it is silent
- f as in English. At the end of a word like v. In the middle of a word before v of the same syllable, also after l and r, it is mute Ex: kalfven (pron. kalven). f and v of separate syllables retain their original sounds. Ex: drifved (= driv-ved).
- g 1) as in good before a hard vowel, before i and e in a sharp unaccented syllable, at the end, and before a consonant of the same syllable. 2) like y in yes, before the soft vowels, and after l and r. Ex: ge (like ya). Of this rule there are some exceptions. 3) like ck when a t follows. Ex: sagt (=sackt). 4) like ng when a syllable ends in gn, as vagn (pronounced vangn).
  5) before j it is mute. Ex: gjort (pr. jort).
- h is aspirated, before j and v it is mute.

- j like y in yes. After f m n p the j is clearly articulated and the preceding consonant has a very slight pronunciation. As a final letter it is somewhat like the German ch.
- k 1) as in English. It is subject to the same rules as g. 2) before the soft vowels it is like our ch. In kjortel the k sounds like t.
- l before j is mute.
- m as in English. The final m sounds like two m in those radical words which, on being inflected, are spelled with double m.
  Ex: lam (pron. lamm).
- q with v after, sounds like kv.
- r and s as in English. stj, sj, skj like sh. sk before soft vowels is likewise pronounced as sh.
- t as in English. tj like ch in church. tion, with a hard vowel before it, like schone, and after a consonant like shone.
- v as in English. The word von is pronounced fon as in German from which language it is borrowed.
- x is like ks.
- z is pronounced like s.

## ANGLO-SAXON.

The Anglo-Saxon language developed itself from the Low-German (Old-Saxon) idiom, which was introduced in England by the Saxons in or before the fifth century. In the ninth century this language was cultivated in writing, and obtained currency through the agency of laws and translations. In the eleventh century, with the overthrow of the Saxon dynasty and the commencement of the Norman rule, French became the language of the court and of judicial proceedings. The knowledge of the Auglo-Saxon language was confined to the dependent classes and to the residents of convents. In the thirteenth century, when this idiom once more became popular, it had received such an amount of foreign elements, and had lost so many native characteristics, that it could only be considered as a mixed dialect, out of which the modern ge was gradually formed.

English	languag
Αa	a
ВЪ	b
Сc	c
A a B b C c D b E e F F G 3 b h I 1 k k	d
<b>Є</b> е	e
FF	f
G <sub>3</sub>	g
Ьh	h
I 1	i
k k	k
L1	1
$\Omega$ m	m
N n	n
0 o	0
Рр	p
Rη	r
ST	s
Ττ	t
U u	u
VP	p r s t u v
$\mathbf{X} \propto$	х
Om Nn Oo Pp Rp Sp Tc Clu VP X x Y y Z Z Z	x y z
Zz	Z
<b>D</b> 9	dh
b b	th

#### PRONUNCIATION.

- a e i o u have the same sound as in German or Italian.
- y has the same force as in Euglish.
- æ sounds as a in that.
- The Consonants have the following peculiarities of pronunciation,
- c is in all instances hard like k. cw stands for kw.
- f between two vowels or as a final letter is pronounced like v.
- g is always like the modern g in go. Occasionally 3 occurs instead of g. This letter takes the sound of y in yes.
- cg is used instead of gg.
- h is a strong aspirate. As a final of a syllable and before a consonant it resembles the German ch.
- hw answers to the English wh. h is also found before the liquids 1, n, r.
- w sometimes precedes r and l.
- b (tha) hard, like th in thick.
- $\delta$  (eth) soft, like th in this. Usually  $\rho$  is the initial and  $\delta$  the flual of a syllable.
- 7 and F stands for and.
- 5 stands for pæt.
- I stands for obje.

The accent (') over a vowel denotes its length. In words of equal spelling this accent points out the difference of sound and meaning. For instance ac (but, eke) ac (oak). The elision of m and n is indicated by a short line (-) over the antecedent letter.

## TRISH.

It has been a subject of learned discussions whether the Irish in the Pagan period made use of the ancient alphabets, which are known by the name of Ogham, and are preserved in some sculptured monuments and in various MSS. With the introduction of Christianity and the spreading of conventual education the subjoined Alphabet was formed, which is still employed in antiquarian publications and in some works intended for the Irish people. At the present time the Irish language is frequently written and printed in Roman (English) characters.

21) 111 m
11 11 n
00 0
ppp
Rpr
S Y s
C τ t
ur u
h 11 h

#### LIGATURES.

Irish MSS, contain contractions of which the following are the most usual.

$\bar{r}$	chd	उं	gh
si	adh	10,15	i
10 16 4 4 4 4 7 4 16	e	111	11
4	air	11)6	m
Ā	an	11]]=	$\mathbf{m}$
Ã	am	11)	W
7	agur	110	n
4	ar	l ij	nn
16	v w	Þ	f
ნე≍	v w	blo	b
<b>b</b> p	b	l in	1.1.
CC C Op	g	T T	h si
Ċ	ch	1)	h
01=	d	عهرسير	t
~~	d	77	d
ę	ea	1	i
est	ea	100	i
eat F 30	h	10 10 10 10 10 10 10 10 10 10	ie
3c	g	<b>ÚI</b> 3	i

## GOTHIC

language.

Form	Value	Num: power	Ligatures and marks
7	a	1	LIGATURES
В	b	2	of frequent oc-
r	g	3	currence in the Skeireins.
a	d	4	To for ht
6	e	5	14 — 14
u	q	6	m - nn
Z	Z	7	nr — nr
h	h	8	и – ии
ψ	dh (þ)	9	ы — на
ιï	i	10	№ — из
ĸ	k	20	кb — кф
λ	1	30	<del>В</del> — ФВ
H i	m	40	ΨΥΝ
И	n	50	* 1
G	j	60	MONOGRAMS.
n	u	70	<b>X</b>
п	p	80	for mathaius
K	r	100	Tor marparus
S	S	200	K K
T	t	300	for markus.
Y	v	400	
F	f.	500	NUMERICAL
X	X	600	FIGURES.
0	, w	700	H = 90
Q	0	800	$\uparrow$ = 900

The Gothic language was in ancient times spoken by the eastern Germans who were designated by the collective name of Goths. It belongs to the Indo-Germanic family, and as a dead language, it has been remarkably preserved in the most ancient relic of Germanic literature. It is the first of the sister-languages that was committed to writing, and has thus reached us in its original purity. Although the relics of Gothic literature are very scanty, for beyond the fragmentary version of the Bible and the so called Skeireins, we possess but insignificant remains, there is enough matter extant to afford a perfect

Observations

The Gothic Alphabet has the adjoining 25 letters. Their names are not known, as the language was not cultivated by native grammarians. The invention of the Gothic characters is attributed to Ulphilas.

insight into the grammatical structure of the

To distinguish the numerical letters from the other characters, the sign — or — is placed above or below the number. In these cases the diæresis over the ï is omitted. Such letters receive a characteristic dot on the right and left. In the Neapolitan copy two dots, in the shape af a colon, are placed on both sides of the letter. Instead of dots the upright circumflex is 1 sometimes to be found,

B. (2), :M: (40), (G) (60).

The "catchword" is likewise enclosed between upright circumflexes, as AGA.

#### ORTHOGRAPHICAL SIGNS.

1. Diacritical signs only occur in the diæresis over the initial  $\ddot{I}$ .

2. Punctuation. As a general rule the single stop represents the brief pause, and the double stop a longer pause. Yet this punctuation is not consistently carried out, such signs being often introduced without purpose, and contrary to the sense. After a long pause a blanc space is left. In the other parts of the text the words are all strung together without division, and sometimes the new sentence is placed in an other line, in which case the initial letters are preceded by the sign — or —.

3. The division of a word, written in two lines, is often made without any rule, and merely to fill the vacant space. The separation is in rare instances indicated by a hyphen, which then is marked at the beginning of the new line, and not at the end of the preced-

4. Quotations are distinguished from the text by the single upright mark for the double
5. This mark is continued in the margin before all the lines which contain the quotation. In the Skeireins, which has single marks of quotation, the sign is superadded

in the first line, and the sign \_\_\_ in the last.

5. Abbreviations. The elision of n is marked by or \_\_, and m by or \_\_.

These signs are generally used at the end of a line, when there is not enough space for the letters, but sometimes they also occur in the middle of a line. Real abbreviations are in some instances indicated by the sign, before and after the word, but generally the signs \_\_, or \_\_ are employed.

## RUNES

73	NT .	37-1	Num:
Form	Name .	Value	power
۳	Fé	f	1
U	Ur	u.	2
Þ	Thurs	th	3
1	Os	0.	4
R	Reid	r	5
r	Kaun	k	6
*	Hagl	h	7
K	Naud	n	8
1	Is	i	9
1	Ar	. a	10
14	Sol	s	11
$\uparrow$	Tyr	t	12
B	Biörk	b	13
1	Laugr	1	14
Y	Madr	m	15
<u></u>	Yı	У	16

The adoption of the Norse Runes takes its origin in remote antiquity, and probably belongs to a pre-christian period, as is suggested by a variety of coincidences, although hitherto no positive proofs have been discovered in the Runic stones, by which those monuments might be connected with the prevalence of paganism. As is the case in the Greek, Gothic and other alphabets, the Runic signs represent both letters and numerals. These characters, 16 in number, bear peculiar names, and appear to have been arranged in an arbitrary manner, no attention having been paid to the mutual relation and transition of the several letters.

Observations

The Runic characters were divided into three classes, in which the letter | headed the first series, \* and T each of the other two series. These three divisions were therefore respectively named Freys-aett (Frey's family), Hagls - aett and Tyrs-aett. It is obvious that these letters could but imperfectly express the variety of sounds. There was only one sign for g and k, d and t, b and p, u v and y. It is most curious that the connective e and  $\ddot{o}$  are omitted in this system. The latter vowel is replaced by au, and the former by i, a, ia and ai. Instead of g and gh the h is occasionally employed, while u might serve as the substitute of o, of the vowel y, of the diphthongs ae, au and ey, and even of the consonants v and f. Yr was equivalent to final r (of the same value as or

and ur), and as such it was called aur. When the insufficiency of the Runic alphabet was more sensibly felt, four additional letters were adopted, namely e, g, p and v. Their names were no longer in conformity with the 16 archaic characters. Nor were new shapes given to these Runes. The simple expedient of adding one dot or two to the kindred letter was considered sufficient; therefore these sign bear the name of stungmar runir (dotted runes). The old letters adapted to this purpose are i, k, b and f. When the Roman characters, along with the use of paper and parchment were adopted in the North, the Runes were increased by the addition of dh, d, ae, oe, ue, and subsequently by the superfluons letters e, g, x and e. The latter signs may be regarded as spurious anginentations of the Runes. The same criticism seems to hold good in reference to the three double runes, by which the numerals were increased to ninteen, and beyond which the numeral system of the Runes does not extend.

The 3 double-runes are,

Arlaugr. 17.

⊁ mm, Tvimadr. 18.

Φ tt, Belgthor. 19.

To express the subsequent numbers, several Runes were combined.

(= twice ten) denoted 20, = 21, = 22 and so on.

# RUNES

compared with the Gothic Alphabet of Ulfilas.

Northern . Runes		Golden  Golden  Horn		Anglo-Saxon			Alphabet of Ulfilas				
r	fê	f	٢			ש	feoh	f	þ	faíhu	φ
n	ûr	u v	U			U V	ur	u	n	urus	ου o
Þ	Purs Porn	Þð	þ			Þ	Þorn	Þ	ψ.	Paúrnus	2
1 \$	ôs	0	F	1	a	×	os	0	Ą	ans	α
R	reið	r	R	R	r	R	rad	r	K	raiða	5
Y	kaun	k g	<	<	c (k)	khh	cen	c (k)	ĸ	kaunzama	k c /γ x)
	1		X	X	g	X	gyfu	g	Γ.	giba	γ -
	0		P	P	v	P	wen	w	YP	vinja	vυ
*44	hagal	h	Н	НН	h	<b>H</b>	hægl	h	h	hagls	h
++	nauð	n	+	+	n	+	nyd	n	И	náuþs	ν
1	is	i	1		i		is	i	ι	eis	ι (η υ ε ει)
11	àr	a	P			фф	ger	ge (-y)	G	jêr	c.
(人)	$(\mathbf{\hat{y}r})$		1			15	eoh	eo	ZZ	iuja	ζ (σ)
			R			H	peorð	p	π	paírþr	π
			Ψ		1	Y	eolhx				
И	sôl	s	5	>	s	4	sigel	s	SEL	sôjil	σ (ξ)
11	tŷr .	t d	1	1	t	1	tir	t	т	tius	τ
B	biarkan	b p	B			B	beorc	b	~ ~	baírika	β (v)
			M	M	e	M	eh	e	e (~)	aíhvus	η (ιεαιαε)
ΥФ	maðr	m	M	Y	m	MM	man	m	н	manna	μ
1	lögr	1	1	1	l	1	lagu	I		lagus	λ
			<b>♦</b>	<b>\$</b>	gg(ng)		ing	ng	X +.	iggvs	χ (k)
			\$	M	d	M	dæg	d	a	dags	8 3
			$(\mathbf{M})$	\$	0	ጸ	eðel	ê æ	Q	òþal	ω (ο ου).
						K	ac	à			
					3	1	æsc	æ			
		3				Æ	yr	у			
						4	ear	ea			
							ior	io			
							calc				
								st			
					4	XX	gar	g			

73



